

# PROGRAM ACQUISITION COSTS BY WEAPON SYSTEM

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*Department of Defense Budget  
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**DEPARTMENT OF DEFENSE  
FY 2000 BUDGET  
PROGRAM ACQUISITION COSTS  
(Dollars in Millions)**

|                              | <b><u>AIRCRAFT</u></b>   | <b><u>FY 1998</u></b> | <b><u>FY 1999</u></b> | <b><u>FY 2000</u></b> | <b><u>Page<br/>No.</u></b> |
|------------------------------|--|-----------------------|-----------------------|-----------------------|----------------------------|
| <b><u>Army</u></b>           |  |                       |                       |                       |                            |
| AH-64D                       | Longbow Apache   | 505.6                 | 630.7                 | 773.5                 | 1                          |
| RAH-66                       | Comanche Helicopter  | 262.6                 | 364.8                 | 427.1                 | 2                          |
| UH-60                        | Blackhawk Helicopter   | 282.7                 | 273.5                 | 102.8                 | 3                          |
| <b><u>Navy</u></b>           |  |                       |                       |                       |                            |
| AV-8B                        | Harrier  | 334.2                 | 389.0                 | 346.4                 | 4                          |
| CH-60                        | Helicopter   | 59.4                  | 176.1                 | 325.6                 | 5                          |
| EA-6B                        | Prowler  | 117.0                 | 160.2                 | 248.0                 | 6                          |
| E-2C                         | Hawkeye  | 375.8                 | 460.9                 | 411.6                 | 7                          |
| F/A-18E/F                    | Hornet   | 2,424.4               | 3,178.2               | 3,066.3               | 8                          |
| T-45TS                       | Goshawk  | 295.8                 | 316.1                 | 357.9                 | 9                          |
| SH-60R                       | Helicopter   | 82.0                  | 226.4                 | 348.8                 | 10                         |
| <b><u>Air Force</u></b>      |  |                       |                       |                       |                            |
| B-2                          | Stealth Bomber   | 650.4                 | 424.7                 | 374.6                 | 11                         |
| C-17                         | Airlift Aircraft   | 2,367.4               | 3,192.2               | 3,561.9               | 12                         |
| CAP                          | Civil Air Patrol   | 2.9                   | 3.0                   | 2.5                   | 13                         |
| E-8C                         | Joint Surveillance Target Attack<br>Radar System (Joint STARS) | 433.3                 | 663.3                 | 483.0                 | 14                         |
| F-16                         | Falcon Multi-Mission Fighter                                   | 210.4                 | 206.6                 | 440.8                 | 15                         |
| F-22                         | Advanced Tactical Fighter (ATF)                                | 2,084.0               | 2,365.7               | 3,074.3               | 16                         |
| ABL                          | Airborne Laser   | 153.5                 | 257.3                 | 308.6                 | 17                         |
| <b><u>DoD-wide/Joint</u></b> |  |                       |                       |                       |                            |
| JPATS                        | Joint Primary Aircraft<br>Training System                      | 125.2                 | 150.4                 | 166.8                 | 18                         |
| JSF                          | Joint Strike Fighter   | 913.4                 | 923.3                 | 476.9                 | 19                         |
| V-22                         | Osprey   | 1,185.6               | 1,060.2               | 1,168.7               | 20                         |
| C-130J                       | Airlift Aircraft   | 544.6                 | 493.5                 | 42.9                  | 21                         |
| <b><u>MISSILES</u></b>       |  |                       |                       |                       |                            |
| <b><u>Army</u></b>           |  |                       |                       |                       |                            |
| ATACMS                       | Army Tactical Missile System                                   | 173.5                 | 182.4                 | 199.9                 | 22                         |
| BAT                          | Brilliant Anti-Armor Submunition                               | 142.4                 | 182.9                 | 249.8                 | 23                         |
| JAVELIN                      | AAWS-M   | 145.7                 | 348.6                 | 411.1                 | 24                         |
| LONGBOW                      | Longbow Hellfire Missile                                       | 231.2                 | 345.1                 | 294.3                 | 25                         |
| MLRS                         | Multiple Launch Rocket System                                  | 176.2                 | 152.1                 | 192.7                 | 26                         |

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|---------------------------------------|---|-----------------------|-----------------------|-----------------------|----------------------------|
| <b><u>MISSILES</u></b>                |   |                       |                       |                       |                            |
| <b><u>Army Contd.</u></b>             |   |                       |                       |                       |                            |
| AVENGER                               | Missile System  | 0                     | 34.9                  | 33.8                  | 27                         |
| <b><u>Navy</u></b>                    |   |                       |                       |                       |                            |
| RAM                                   | Rolling Airframe Missile                                    | 56.4                  | 50.7                  | 53.6                  | 28                         |
| STANDARD                              | Missile (Air Defense)                                       | 177.7                 | 223.7                 | 213.1                 | 29                         |
| TOMAHAWK                              | Cruise Missile  | 129.4                 | 201.9                 | 198.1                 | 30                         |
| TRIDENT II                            | Submarine Launched<br>Ballistic Missile                     | 306.0                 | 374.4                 | 537.0                 | 31                         |
| <b><u>Marine Corps</u></b>            |   |                       |                       |                       |                            |
| JAVELIN                               | AAWS-M  | 58.2                  | 82.9                  | 92.9                  | 32                         |
| <b><u>DoD-wide/Joint</u></b>          |   |                       |                       |                       |                            |
| AMRAAM                                | Advanced Medium Range<br>Air-to-Air Missile                 | 202.4                 | 187.3                 | 207.3                 | 33                         |
| JASSM                                 | Joint Air-to-Surface Standoff<br>Missile                    | 167.2                 | 130.9                 | 168.4                 | 34                         |
| JSOW                                  | Joint Standoff Weapon                                       | 178.3                 | 231.2                 | 275.9                 | 35                         |
| AIM-9X                                | Sidewinder  | 106.3                 | 117.2                 | 142.3                 | 36                         |
| <b><u>VESSELS</u></b>                 |   |                       |                       |                       |                            |
| <b><u>Navy</u></b>                    |   |                       |                       |                       |                            |
| DDG-51                                | AEGIS Destroyer   | 3,621.6               | 2,899.4               | 2,928.0               | 37                         |
| NSSN                                  | New Attack Submarine  | 2,975.1               | 2,353.9               | 1,105.7               | 38                         |
| SSN-21                                | Seawolf Attack Submarine                                    | 222.3                 | 57.8                  | 66.4                  | 39                         |
| LPD-17                                | San Antonio Class Amphibious Trans.                         | 230.8                 | 638.2                 | 1,523.1               | 40                         |
| ADC (X)                               | Auxilliary Dry Cargo Ship                                   | -                     | -                     | 453.1                 | 41                         |
| <b><u>TRACKED COMBAT VEHICLES</u></b> |   |                       |                       |                       |                            |
| <b><u>Army</u></b>                    |   |                       |                       |                       |                            |
| M1A2                                  | Abrams Tank Upgrade   | 622.2                 | 702.2                 | 658.3                 | 42                         |
| M2A3                                  | Bradley Base Sustainment                                    | 302.4                 | 440.7                 | 348.8                 | 43                         |
| Crusader                              | Artillery Systems   | 301.2                 | 313.6                 | 343.9                 | 44                         |
| <b><u>SPACE PROGRAMS</u></b>          |   |                       |                       |                       |                            |
| <b><u>Army</u></b>                    |   |                       |                       |                       |                            |
| DSCS                                  | Defense Satellite Communications<br>System (Ground Systems) | 101.9                 | 126.3                 | 89.3                  | 45                         |

**DEPARTMENT OF DEFENSE  
FY 2000 BUDGET  
PROGRAM ACQUISITION COSTS  
(Dollars in Millions)**

|                              |   | <u>FY 1998</u> | <u>FY 1999</u> | <u>FY 2000</u> | <u>Page<br/>No.</u> |
|------------------------------|---|----------------|----------------|----------------|---------------------|
| <b><u>SPACE PROGRAMS</u></b> |   |                |                |                |                     |
| <b><u>Air Force</u></b>      |   |                |                |                |                     |
| DSP                          | Defense Support Program                       | 103.4          | 100.5          | 119.1          | 46                  |
| MLV                          | Medium Launch Vehicles                        | 197.5          | 182.4          | 66.1           | 47                  |
| MILSTAR                      | Satellite Communications                      | 609.7          | 546.5          | 361.3          | 48                  |
| NAVSTAR GPS                  | NAVSTAR Global Positioning<br>System          | 259.4          | 188.0          | 269.8          | 49                  |
| Titan                        | Heavy Launch Vehicles                         | 515.7          | 661.0          | 476.7          | 50                  |
| EELV                         | Evolved Expendable Launch Vehicle             | 23.3           | 259.1          | 395.6          | 51                  |
| SBIRS-H                      | Space Based Infrared System-High              | 337.9          | 539.4          | 328.7          | 52                  |
| SBIRS-L                      | Space Based Infrared System-Low               | 213.5          | 192.2          | 229.0          | 53                  |
| <b><u>OTHER PROGRAMS</u></b> |   |                |                |                |                     |
| <b><u>Army</u></b>           |   |                |                |                |                     |
| FHTV                         | Family of Heavy Tactical Vehicles             | 112.3          | 196.4          | 190.4          | 54                  |
| FMTV                         | Family of Medium Tactical Vehicles            | 204.5          | 335.4          | 427.9          | 55                  |
| HMMWV                        | High Mobility Multipurpose<br>Wheeled Vehicle | 120.9          | 64.2           | 99.3           | 56                  |
| SADARM                       | Sense and Destroy Armor Munition              | 75.8           | 63.1           | 73.9           | 57                  |
| WAM                          | Hornet (Wide Area Munition)                   | 36.1           | 32.6           | 23.7           | 58                  |
| <b><u>Air Force</u></b>      |   |                |                |                |                     |
| SFW                          | Sensor Fuzed Weapon                           | 164.4          | 132.6          | 73.1           | 59                  |
| WCMD                         | Wind Corrected Munitions Dispenser            | 29.4           | 21.1           | 48.9           | 60                  |
| <b><u>DoD-wide/Joint</u></b> |   |                |                |                |                     |
| TMD                          | Theater Missile Defense                       | 3,047.1        | 2,833.5        | 2,962.4        | 62                  |
| NMD                          | National Missile Defense                      | 936.2          | 1,092.9        | 1,286.6        | 63                  |
| JDAM                         | Joint Direct Attack Munition                  | 100.8          | 107.0          | 174.4          | 64                  |
| UAV                          | Unmanned Aerial Vehicles                      | 652.3          | 779.6          | 648.1          | 65                  |

**AIRCRAFT PROGRAMS  
ARMY**

**Longbow Apache**

**Description:** Longbow Apache consists of a mast mounted Fire Control Radar (FCR) integrated into an upgraded and enhanced AH-64 airframe. The FCR effort is being accomplished by a joint venture team comprised of two companies, Lockheed-Martin Corporation, Bethesda, MD and Northrup Grumman, Baltimore, MD. Boeing Helicopter Systems is the prime contractor for the Longbow Apache program.

**Mission:** Longbow Apache will provide the AH-64 a fire and forget HELLFIRE capability, greatly increasing weapon system effectiveness and aircraft survivability.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |             | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|-------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |             |                |            |
| Item                         | (-)            | 497.5      | (-)            | 608.9       | (-)            | 765.2      |
| Initial Spares               |                | <u>8.1</u> |                | <u>21.8</u> |                | <u>8.3</u> |
| Subtotal                     |                | 505.6      |                | 630.7       |                | 773.5      |
| <b>RDT&amp;E</b>             |                | -          |                | -           |                | -          |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>    |                | <u>-</u>   |
| <b>TOTAL</b>                 |                | 505.6      |                | 630.7       |                | 773.5      |

**AIRCRAFT PROGRAMS  
ARMY**

**RAH-66 COMANCHE HELICOPTER**

**Description:** The RAH-66 Comanche Helicopter program will develop an armed reconnaissance helicopter which will replace the Army's rapidly aging fleet of OH-58 and AH-1 aircraft. Two development contracts have been awarded. Airframe and avionics development is being done by a joint venture between United Technologies Corporation, Sikorsky Aircraft Division of Stratford, CT and Boeing Vertol of Philadelphia, PA. Engine development for the T-800 growth engine is being done by Light Helicopter Turbine Engine Company, a partnership of Allied Signal Aerospace, Phoenix, AZ and Allison Engine Company, Indianapolis, IN.

**Mission:** The RAH-66 will be used for armed reconnaissance and light attack missions.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (-)            | -          | (-)            | -          | (-)            | -          |
| Initial Spares               |                | —          |                | —          |                | —          |
| Subtotal                     |                | -          |                | -          |                | -          |
| <b>RDT&amp;E</b>             |                | 262.6      |                | 364.8      |                | 427.1      |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 262.6      |                | 364.8      |                | 427.1      |

**AIRCRAFT PROGRAMS  
ARMY**

**UH-60 UTILITY HELICOPTER (BLACKHAWK)**

**Description:** The BLACKHAWK is a twin engine, single-rotor helicopter that is designed to carry a crew of four and a combat equipped squad of eleven or an equal cargo load. It is also capable of carrying external loads of up to 6,000 lbs. The prime contractor is United Technologies Corporation, Sikorsky Aircraft Division of Stratford, CT.

**Mission:** The BLACKHAWK provides a highly maneuverable, air transportable, troop carrying helicopter for all intensities of conflict, without regard to geographical location or environmental conditions. It moves troops, equipment and supplies into combat and performs aeromedical evacuation and multiple functions in support of the Army's air mobility doctrine for employment of ground forces.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (28)           | 280.3      | (29)           | 271.6      | (8)            | 102.8      |
| Initial Spares               |                | <u>2.4</u> |                | <u>1.9</u> |                | <u>-</u>   |
| Subtotal                     |                | 282.7      |                | 273.5      |                | 102.8      |
| <b>RDT&amp;E</b>             |                | -          |                | -          |                | -          |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>   |                | <u>-</u>   |
| <b>TOTAL</b>                 |                | 282.7      |                | 273.5      |                | 102.8      |



**AIRCRAFT PROGRAMS  
NAVY**

**AV-8B (V/STOL) HARRIER**

**Description:** The AV-8B Harrier is a single-seat, single-engine, transonic jet aircraft capable of Vertical/Short Takeoff and Landing (V/STOL). This V/STOL capability, combined with high performance and combat effectiveness, provides the Marine Corps forces with a quick reaction weapon system. Prime contractors are Boeing Aircraft Corporation, St. Louis, MO for the airframe, Rolls Royce, Ltd. of Bristol, England for the engine, and British Aerospace of Kingston, England for the aft fuselage. The last year of new production for the AV-8B aircraft for the United States was FY 1992. The AV-8B Remanufacture program converts older AV-8B day attack configured aircraft to the most recent production radar/night attack configuration. The budget request supports continuation of a 3-year multiyear procurement for airframes.

**Mission:** The mission of the AV-8B aircraft is to provide close air support for Marine Corps forces in amphibious operations, and direct support of ground forces from austere forward bases.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |             | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|------------------------------|----------------|-------------|----------------|-------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |             |                |             |                |             |
| <b>AV-8B</b>                 | (12)           | 299.2       | (12)           | 333.8       | (12)           | 291.3       |
| <b>Initial Spares</b>        |                | <u>24.7</u> |                | <u>24.4</u> |                | <u>16.5</u> |
| <b>Subtotal</b>              |                | 323.9       |                | 358.2       |                | 307.8       |
| <b>RDT&amp;E,N</b>           |                | 10.3        |                | 30.8        |                | 38.6        |
| <b>Military Construction</b> |                | —           |                | —           |                | —           |
| <b>TOTAL</b>                 |                | 334.2       |                | 389.0       |                | 346.4       |

**AIRCRAFT PROGRAMS  
NAVY**

**CH-60S Helicopter**

**Description:** The CH-60 is a versatile twin-engine helicopter used to maintain forward deployed fleet sustainability through rapid airborne delivery of materials and personnel, and to support amphibious operations through search and rescue coverage. The budget request supports participation in the Army's multiyear procurement. The prime contractor is Sikorsky Aircraft of Stratford, CT.

**Mission:** The CH-60 will conduct vertical replenishment (VERTREP), day/night ship-to-ship, ship-to-shore, and shore-to-ship external transfer of cargo; internal transport of passengers, mail and cargo, vertical onboard delivery; air operations; and day/night search and rescue.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>CH-60</b>                 | (1)            | 29.7       | (5)            | 137.2      | (13)           | 282.3      |
| <b>Initial Spares</b>        |                | <u>—</u>   |                | <u>5.0</u> |                | <u>8.4</u> |
| <b>Subtotal</b>              |                | 29.7       |                | 142.2      |                | 290.7      |
| <b>RDT&amp;E,N</b>           |                | 29.7       |                | 33.9       |                | 34.9       |
| <b>Military Construction</b> |                | <u>—</u>   |                | <u>—</u>   |                | <u>—</u>   |
| <b>TOTAL</b>                 |                | 59.4       |                | 176.1      |                | 325.6      |

**AIRCRAFT PROGRAMS  
NAVY**

**EA-6B PROWLER**

**Description:** The EA-6B Prowler is a 4-seat twin engine derivative of the A-6 Attack aircraft that is equipped with a computer-controlled electronic surveillance and control system and high power jamming transmitters. The overall goals of the modification program are to upgrade the airframe structure and avionics systems to increase the life of the aircraft and to expand the aircraft's jamming capabilities. Contractors are Northrop Grumman, Tracor Aerospace, and AIL Systems.

**Mission:** The mission of the EA-6B aircraft is to provide all weather electronic countermeasures (ECM) in support of Navy and Marine Corps strike forces. The budget request includes funding to modify the EA-6B aircraft.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Modifications</b>         | -              | 112.5      | -              | 95.2       |                | 160.7      |
| <b>Initial Spares</b>        |                | —-         |                | —-         |                | —-         |
| <b>Subtotal</b>              |                | 112.5      |                | 95.2       |                | 160.7      |
| <b>RDT&amp;E,N</b>           |                | 3.4        |                | 65.0       |                | 87.3       |
| <b>Military Construction</b> |                | <u>1.1</u> |                | —-         |                | —-         |
| <b>TOTAL</b>                 |                | 117.0      |                | 160.2      |                | 248.0      |

**AIRCRAFT PROGRAMS  
NAVY**

**E-2C HAWKEYE**

**Description:** The E-2C Hawkeye is an all weather, carrier-based airborne early warning aircraft. Prime contractors are Northrop-Grumman Corporation of St. Augustine, FL for the airframe and General Motors Corporation, Allison Division, Indianapolis, IN for the engine. The budget request supports continuation of a 5-year multiyear procurement.

**Mission:** The missions of the E-2C aircraft are airborne early warning, strike and control, radar surveillance, search and rescue assistance, communication relay and automatic tactical data exchange.

|                              | Program Acquisition Costs |            |                |             |                |             |
|------------------------------|---------------------------|------------|----------------|-------------|----------------|-------------|
|                              | (\$ Millions)             |            |                |             |                |             |
|                              | <u>FY 1998</u>            |            | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|                              | <u>Qty</u>                | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                           |            |                |             |                |             |
| <b>E-2C</b>                  | (4)                       | 311.5      | (3)            | 397.3       | (3)            | 383.0       |
| <b>Initial Spares</b>        |                           | <u>6.0</u> |                | <u>17.0</u> |                | <u>12.5</u> |
| <b>Subtotal</b>              |                           | 317.5      |                | 414.3       |                | 395.5       |
| <b>RDT&amp;E,N</b>           |                           | 58.3       |                | 46.6        |                | 16.1        |
| <b>Military Construction</b> |                           | <u>-</u>   |                | <u>-</u>    |                | <u>-</u>    |
| <b>TOTAL</b>                 |                           | 375.8      |                | 460.9       |                | 411.6       |

**AIRCRAFT PROGRAMS  
NAVY**

**F/A-18E/F HORNET**

**Description:** The F/A-18E/F will be a twin-engine, high-performance, multi-mission, tactical aircraft for deployment in Navy and Marine Corps fighter and attack squadrons. The development of the F/A-18E/F began in FY 1991. The F/A-18E/F possesses enhanced range, payload and survivability features compared with the current C/D model aircraft. It will replace the F/A-18C/D and will partially replace the A-6E and the F-14A. Prime contractors are Boeing Aircraft Corporation of St. Louis, MO for the airframe and General Electric Company, Aircraft Engine Division of Lynn, MA for the engines. Northrop Grumman Corporation, Hawthorne, CA is a major subcontractor. The budget request provides for completion of operational evaluation and initiation of a 5 year multiyear procurement.

**Mission:** The F/A-18E/F will be a strike fighter capable of performing the following missions: strike, interdiction, close air support, fighter escort, and fleet air defense.

|                       | Program Acquisition Costs<br>(\$ Millions) |             |                |              |                |             |
|-----------------------|--|-------------|----------------|--------------|----------------|-------------|
|                       | <u>FY 1998</u>                             |             | <u>FY 1999</u> |              | <u>FY 2000</u> |             |
|                       | <u>Qty</u>                                 | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>    |  |             |                |              |                |             |
| F/A-18E/F             | (20)                                       | 2,106.4     | (30)           | 2,870.6      | (36)           | 2,854.2     |
| Initial Spares        |  | <u>80.2</u> |                | <u>101.1</u> |                | <u>69.5</u> |
| Subtotal              |  | 2,186.6     |                | 2,971.7      |                | 2,923.7     |
| RDT&E,N               |  | 237.8       |                | 206.5        |                | 142.6       |
| Military Construction |  | <u>-</u>    |                | <u>-</u>     |                | <u>-</u>    |
| TOTAL                 |  | 2,424.4     |                | 3,178.2      |                | 3,066.3     |

# AIRCRAFT PROGRAMS NAVY

## T-45 GOSHAWK

**Description:** The T-45 GOSHAWK is a derivative of the British Aerospace HAWK aircraft. The T-45 Training System will integrate aircraft, simulators, academics, and a training management system into a replacement for current intermediate and advanced phase training aircraft. The prime contractor is Boeing Aircraft Company, St. Louis, MO; British Aerospace of Kingston, England provides the center and aft fuselage; and Rolls Royce, Ltd of Bristol, England provides the engine. The budget request supports procurement of the airframes.

**Mission:** The T-45 will provide undergraduate jet pilot training for Navy and Marine Corps aviators.

### Program Acquisition Costs (\$ Millions)

|                              | <u>FY 1998</u> |             | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|------------------------------|----------------|-------------|----------------|-------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |             |                |             |                |             |
| T-45                         | (15)           | 282.6       | (15)           | 300.2       | (15)           | 335.0       |
| Initial Spares               |                | <u>13.2</u> |                | <u>15.9</u> |                | <u>22.9</u> |
| Subtotal                     |                | 295.8       |                | 316.1       |                | 357.9       |
| <b>RDT&amp;E,N</b>           |                | -           |                | -           |                | -           |
| <b>Military Construction</b> |                | <u>-</u>    |                | <u>-</u>    |                | <u>-</u>    |
| <b>TOTAL</b>                 |                | 295.8       |                | 316.1       |                | 357.9       |

**AIRCRAFT PROGRAMS  
NAVY**

**SH-60R**

**Description:** The SH-60R is a remanufacture of the H-60 series helicopter which will improve the capability of the LAMPS MK III Weapons system to provide battle group protection by adding significant capability in coastal littorals and regional conflicts. The remanufacturing scope includes an upgrade, service life extension, standard Depot Level Maintenance, and incorporation of Engineering Change Proposals. Prime contractors are Sikorsky Aircraft of Stratford, CN for the airframe and Lockheed Martin of Owego, NY for the avionics.

**Mission:** The SH-60R will be the forward deployed fleet's primary Anti-Submarine and Anti-Surface Warfare platform. This request provides funding for the remanufacture of H-60 series helicopters.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |             |
|------------------------------|----------------|------------|----------------|------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |            |                |            |                |             |
| <b>Item</b>                  | (-)            | -          | (-)            | -          | (7)            | 216.7       |
| <b>Initial Spares</b>        |                | —          |                | -          |                | <u>13.4</u> |
| <b>Subtotal</b>              |                | -          |                | -          |                | 230.1       |
| <b>RDT&amp;E,N</b>           |                | 82.0       |                | 226.4      |                | 118.7       |
| <b>Military Construction</b> |                | —          |                | —          |                | —           |
| <b>TOTAL</b>                 |                | 82.0       |                | 226.4      |                | 348.8       |

## AIRCRAFT PROGRAMS AIR FORCE

### B-2 STEALTH BOMBER

**Description:** The B-2 is an intercontinental bomber that employs low observable technology to achieve its mission. The bomber is an all-wing, two-place aircraft with twin weapon bays. Four General Electric F-118-GE100 aircraft engines power the B-2. The F-118 engine is a derivative of the F-100 engine, currently used in the F-16 fighter and is in the 19000 lb thrust class. Northrop-Grumman Corporation, Pico Rivera, CA is the prime contractor for the (21) B-2s; the engines are manufactured by General Electric, Evendale, OH. The FY 2000 budget request includes funding to continue development and for various production support costs.

**Mission:** The primary mission of the B-2 is to enable any theater commander to hold at risk and, if necessary, attack an enemy's war-making potential, especially those time critical targets that, if not destroyed in the first hours or days of a conflict, would allow unacceptable damage to be inflicted on the friendly side. The B-2 will also retain its potential as a nuclear bomber, reinforcing the deterrence of nuclear conflict.

#### Program Acquisition Costs (\$ Millions)

|                              | <u>FY 1998</u> |             | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|------------------------------|----------------|-------------|----------------|-------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |             |                |             |                |             |
| Item                         | (-)            | 175.7       | (-)            | 238.6       | (-)            | 106.9       |
| Initial Spares               |                | <u>12.7</u> |                | <u>55.1</u> |                | <u>60.5</u> |
| Subtotal                     |                | 188.4       |                | 293.7       |                | 167.4       |
| <b>RDT&amp;E</b>             |                | 434.9       |                | 131.0       |                | 201.8       |
| <b>Military Construction</b> |                | <u>27.1</u> |                | <u>-</u>    |                | <u>5.4</u>  |
| <b>TOTAL</b>                 |                | 650.4       |                | 424.7       |                | 374.6       |



**AIRCRAFT PROGRAMS  
AIR FORCE**

**C-17 AIRLIFT AIRCRAFT**

**Description:** The C-17 program is a wide body, four engine, turbofan aircraft that meets the nations' s strategic airlift requirement for a new core to modernize the U.S. strategic airlift capability. The C-17 is capable of performing the entire spectrum of airlift missions and is specifically designed to effectively and efficiently operate in both the intertheater and intratheater environments. The major contractors are Boeing, Long Beach, CA (Airframe) and Pratt-Whitney, East Hartford, CT (Engine). The FY 2000 budget requests funding for operational development to continue aircraft production for a total procurement of 134 aircraft and to make product improvements.

**Mission:** The C-17 will provide outsize intratheater airland/airdrop capability not available in the current airlift force and eventually replace C-141s as they begin to retire after the turn of the century.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |              | <u>FY 1999</u> |              | <u>FY 2000</u> |            |
|------------------------------|----------------|--------------|----------------|--------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |              |                |              |                |            |
| <b>Item</b>                  | (9)            | 2,130.9      | (13)           | 2,891.0      | (15)           | 3,385.0    |
| <b>Initial Spares</b>        |                | <u>128.2</u> |                | <u>112.0</u> |                | <u>-</u>   |
| <b>Subtotal</b>              |                | 2,259.1      |                | 3,003.0      |                | 3,385.0    |
| <b>RDT&amp;E</b>             |                | 101.8        |                | 118.2        |                | 170.7      |
| <b>Military Construction</b> |                | <u>6.5</u>   |                | <u>71.0</u>  |                | <u>6.2</u> |
| <b>TOTAL</b>                 |                | 2,367.4      |                | 3,192.2      |                | 3,561.9    |

# AIRCRAFT PROGRAMS AIR FORCE

## CIVIL AIR PATROL (CAP) AIRCRAFT

**Description:** The Civil Air Patrol aircraft will be new or used propeller-driven commercial aircraft to be provided to the Civil Air Patrol by the Air Force from various contractors. When originally established, the Civil Air Patrol was to receive its operating equipment from excess inventory in the Department of Defense. In recent years, the inventory of propeller-driven aircraft in the Department of Defense has been decreasing, allowing for fewer aircraft for modernization of the CAP. The Congress, in recognition of this fact, has permitted the Air Force to procure used or new aircraft specifically for transfer to the CAP. The FY 2000 budget requests funding for the continued procurement of aircraft.

**Mission:** The CAP aircraft will be utilized by the CAP to perform its mission of emergency search and rescue services and to provide aeronautical education for its members and the public.

### Program Acquisition Costs (\$ Millions)

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (27)           | 2.9        | (27)           | 3.0        | (27)           | 2.5        |
| <b>Initial Spares</b>        |                | —          |                | —          |                | —          |
| <b>Subtotal</b>              |                | 2.9        |                | 3.0        |                | 2.5        |
| <b>RDT&amp;E</b>             |                | -          |                | -          |                | -          |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 2.9        |                | 3.0        |                | 2.5        |

**AIRCRAFT PROGRAMS  
AIR FORCE**

**E-8C JOINT STARS**

**Description:** The E-8C Joint Surveillance Target Attack Radar System (Joint STARS) aircraft will be a Boeing 707 class aircraft modified to operate a target attack radar system to detect and track both moving and fixed enemy ground targets. Northrop-Grumman Corporation, Melbourne, FL is the prime contractor. The FY 2000 budget requests funding for continuation of development activities and aircraft production.

**Mission:** Joint STARS will provide battlefield surveillance, attack planning and control and post-attack damage assessment.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|------------------------------|----------------|------------|----------------|-------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |            |                |             |                |             |
| <b>Item</b>                  | (1)            | 320.6      | (2)            | 495.5       | (1)            | 280.3       |
| <b>Initial Spares</b>        |                | <u>-</u>   |                | <u>67.3</u> |                | <u>72.2</u> |
| <b>Subtotal</b>              |                | 320.6      |                | 562.8       |                | 352.5       |
| <b>RDT&amp;E</b>             |                | 112.7      |                | 100.5       |                | 130.5       |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>    |                | <u>-</u>    |
| <b>TOTAL</b>                 |                | 433.3      |                | 663.3       |                | 483.0       |

**AIRCRAFT PROGRAMS  
AIR FORCE**

**F-16 FALCON MULTI-MISSION FIGHTER**

**Description:** The F-16 is a single seat, fixed wing, high performance fighter aircraft powered by a single engine. The advanced technology features include a blended wing body, reduced static margin, and fly-by-wire flight control system. Prime contractors are Lockheed-Martin of Fort Worth, TX for the airframe and Pratt and Whitney of East Hartford, CT and General Electric, Evendale, OH for the engine. The budget request provides for continued development activities and production of 10 Block 50 aircraft.

**Mission:** The F-16 aircraft is a lightweight, high performance, multipurpose fighter capable of performing a broad spectrum of tactical air warfare tasks at affordable cost well into the next century.

**Program Acquisition Costs  
(Dollars in Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |             |
|------------------------------|----------------|------------|----------------|------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |            |                |            |                |             |
| <b>Item</b>                  | (3)            | 115.8      | (1)            | 67.0       | (10)           | 282.6       |
| <b>Initial Spares</b>        |                | —          |                | —          |                | <u>45.7</u> |
| <b>Subtotal</b>              |                | 115.8      |                | 67.0       |                | 328.3       |
| <b>RDT&amp;E</b>             |                | 94.6       |                | 139.6      |                | 112.5       |
| <b>Military Construction</b> |                | —          |                | —          |                | —           |
| <b>TOTAL</b>                 |                | 210.4      |                | 206.6      |                | 440.8       |

## F-22 ADVANCED TACTICAL FIGHTER (ATF)

**Mission:** The F-22 will enhance U.S. air superiority capability against the projected threat and will eventually replace the F-15 aircraft.

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |             | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|-------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |             |                |            |
| <b>Item</b>                  | (-)            | 73.3       | (2)            | 769.1       | (6)            | 1,852.1    |
| <b>Initial Spares</b>        |                | <u>-</u>   |                | <u>25.6</u> |                | <u>-</u>   |
| <b>Subtotal</b>              |                | 73.3       |                | 794.7       |                | 1,852.1    |
| <b>RDT&amp;E</b>             |                | 2,010.7    |                | 1,571.0     |                | 1,222.2    |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>    |                | <u>-</u>   |
| <b>TOTAL</b>                 |                | 2,084.0    |                | 2,365.7     |                | 3,074.3    |

**AIRCRAFT PROGRAMS  
AIR FORCE**

**AIRBORNE LASER**

**Description:** The Airborne Laser (ABL), designated the YAL-1A Attack Laser Aircraft, provides a rapidly deployable airborne platform equipped with a long-range laser weapon. Installed on a modified Boeing 747-400F freighter, ABL will employ an advanced beam control and atmospheric compensation system to precisely direct a multi-megawatt high-energy chemical laser on a boosting missile. The new weapon system is being designed and built by the Boeing led Team ABL, which includes TRW for high-energy lasers, Lockheed Martin for beam and fire control, and Boeing for system integration, aircraft modification, and battle management. The ABL program planned production is for 7 ABL (2 refurbished test aircraft and 5 production aircraft). The FY 2000 budget request includes funding to continue the design, fabrication, integration, and test (lethal demonstration) of a prototype ABL weapon system.

**Mission:** The primary mission of the ABL is to provide a rapidly deployable airborne platform equipped with long-range laser weapon, capable of autonomously detecting, acquiring, tracking, identifying, and negating both liquid and solid-fueled Theater Ballistic Missiles (TBM) during the boost phase of flight. The ABL is listed as a core Upper Tier Theater Missile Defense program worked in coordination with the Ballistic Missile Defense Organization (BMDO).

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (-)            | -          | (-)            | -          | (-)            | -          |
| <b>Initial Spares</b>        |                | —          |                | —          |                | —          |
| <b>Subtotal</b>              |                | -          |                | -          |                | -          |
| <b>RDT&amp;E</b>             |                | 153.5      |                | 257.3      |                | 308.6      |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 153.5      |                | 257.3      |                | 308.6      |

# AIRCRAFT PROGRAMS DOD-WIDE/JOINT

## JOINT PRIMARY AIRCRAFT TRAINING SYSTEM (JPATS)

**Description:** The Joint Primary Aircraft Training System (JPATS) is a joint Air Force/Navy program to replace both Services fleets of primary trainer aircraft (T-37 and T-34, respectively) and associated Ground Based Training Systems (GBTS). The program includes the purchase of aircraft, simulators, ground-based training devices, training management systems, instructional courseware, and logistics support. The contractor is Beech Aircraft Corporation, Wichita, KS (airframe). The FY 2000 budget provides funding for continued development activities and production aircraft.

**Mission:** The mission of the JPATS is to support joint Air Force and Navy specialized undergraduate pilot training. It will support training of student aviators in the fundamentals of flying prior to transition into advanced training.

### Program Acquisition Costs (\$ Millions)

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         |                |            |                |            |                |            |
| Air Force                    | (22)           | 73.3       | (22)           | 105.9      | (21)           | 88.2       |
| Navy                         |                |            |                |            | (8)            | 44.8       |
| Initial Spares               |                | —          |                | .1         |                | —          |
| Subtotal                     |                | 73.3       |                | 106.0      |                | 133.0      |
| <b>RDT&amp;E</b>             |                |            |                |            |                |            |
| Air Force                    |                | 51.6       |                | 43.9       |                | 33.50      |
| Navy                         |                | .3         |                | .6         |                | .3         |
| Subtotal                     |                | 51.9       |                | 44.5       |                | 33.8       |
| <b>Military Construction</b> |                |            |                |            |                |            |
| Air Force                    |                | —          |                | —          |                | —          |
| <b>Total</b>                 |                |            |                |            |                |            |
| Air Force                    |                | 124.9      |                | 149.9      |                | 121.7      |
| Navy                         |                | .3         |                | .6         |                | 45.1       |
| TOTAL                        |                | 125.2      |                | 150.5      |                | 166.8      |

# **AIRCRAFT PROGRAMS** **DOD-WIDE/JOINT**

## **JOINT STRIKE FIGHTER (JSF)**

**Description:** The Joint Strike Fighter (JSF), formerly the Joint Advanced Strike Technology (JAST) Program, was established to support development of an affordable next-generation strike fighter for the Air Force, Marine Corps, Navy and U.S. allies. This joint program will facilitate the development of affordable operational concepts for next-generation strike fighter aircraft and related systems and transition key technologies and common components to support future joint strike fighter requirements while reducing cost and risk. The Navy and Air Force will each provide approximate equal shares of development funding for the program during the Future Years Defense Program (FYDP). The Defense Advanced Research Projects Agency (DARPA) also contributed funding for the concept flight demonstration effort. The program will develop several technology demonstrator aircraft to explore different technologies that could be incorporated into future aircraft. From these technology demonstrators, prototype aircraft will be developed to help choose the next-generation strike fighter, possibly using advanced short takeoff and vertical landing (ASTOVL) technology. The FY 2000 budget requests continued development funds in support of pre-engineering and manufacturing development (EMD) efforts. Dem/Val contracts have been awarded to Lockheed Martin of Bethesda, MD, Boeing of Seattle, WA for the airframe; and Pratt and Whitney, FL for the propulsion system. EMD begins in FY 2001

**Mission:** JSF will ultimately result in the acquisition of one or more aircraft to replace Air Force F-16s, Marine Corps AV-8Bs, and F/A-18s and provide the Navy a first day of war survivable strike fighter to complement the F/A-18E/F.

### **Program Acquisition Costs** **(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (-)            | -          | (-)            | -          | (-)            | -          |
| Initial Spares               |                | -          |                | -          |                | -          |
| Subtotal                     |                | -          |                | -          |                | -          |
| <b>RDT&amp;E</b>             |                |            |                |            |                |            |
| Navy                         |                | 448.2      |                | 468.5      |                | 241.5      |
| Air Force                    |                | 444.3      |                | 454.8      |                | 235.4      |
| Defense-Wide                 |                | 20.9       |                |            |                | -          |
| <b>Military Construction</b> |                | -          |                | -          |                | -          |
| <b>TOTAL</b>                 |                | 913.4      |                | 923.3      |                | 476.9      |



**AIRCRAFT PROGRAMS**  
**Defense-Wide/Joint**

**V-22 OSPREY**

**Description:** The V-22 Osprey is a tilt-rotor, vertical takeoff and landing aircraft designed to meet the amphibious/vertical assault needs of the Marine Corps, long range special operations forces (SOF) missions for USSOCOM, and the strike rescue needs of the Navy. The aircraft will be capable of flying 2,100 miles with one refueling, giving the services the advantage of a V/STOL aircraft that could rapidly self-deploy to any location in the world. Procurement objective is 458 (360 MV-22 aircraft for the Marine Corps; 50 CV-22 aircraft for USSOCOM; and 48 HV-22 aircraft for the Navy). The MV-22 will replace the CH-46E and CH-53D helicopters. The contractors are Textron, Inc., Bell Helicopter Division, Fort Worth, TX and Boeing Vertol, Philadelphia, PA, for the air vehicle and General Motors Corporation, Allison Division, Indianapolis, IN, for the engine. The budget request supports aircraft procurement for the Marine Corps and weapons system trainer procurement for the Air Force. Also funds the advanced procurement to support 1<sup>st</sup> lot procurement of CV22 in FY 01.

**Mission:** The V-22 mission includes airborne assault, vertical lift, combat search and rescue, and special operations.

|                    | Program Acquisition Costs |             |                |             |                |             |
|--------------------|---------------------------|-------------|----------------|-------------|----------------|-------------|
|                    | (\$ Millions)             |             |                |             |                |             |
|                    | <u>FY 1998</u>            |             | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|                    | <u>Qty</u>                | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b> |                           |             |                |             |                |             |
| MV-22 (USMC)       | (7)                       | 676.6       | (7)            | 661.7       | (10)           | 867.4       |
| CV-22 (AF)         | -                         | -           | -              | 22.2        |                | 49.5        |
| Initial Spares     | -                         | <u>21.4</u> | -              | <u>30.4</u> |                | <u>68.9</u> |
| Subtotal           |                           | 698.0       |                | 714.3       |                | 985.8       |
| RDT&E,N            |                           | 487.6       |                | 345.8       |                | 182.9       |
| MILCON             |                           | <u>-</u>    |                | <u>-</u>    |                | <u>-</u>    |
| Total              |                           | 1,185.6     |                | 1,060.2     |                | 1,168.7     |

# AIRCRAFT PROGRAMS AIR FORCE

## C-130J AIRLIFT AIRCRAFT

**Description:** The Hercules C-130J is planned to be a tactical airlift aircraft that will address the need to modernize the U.S. tactical airlift capability. The C-130J will be capable of performing a number of tactical airlift missions including deployment and redeployment of troops and/or supplies within and between command areas in a theater of operation, aeromedical evacuation, air logistic support and augmentation of strategic airlift forces. The major contractors will be Lockheed Corporation, Marietta, GA for the airframe and General Motors Corporation, Allison Division, Indianapolis, IN for the engine. The FY 2000 budget requests funding for logistics and support.

**Mission:** The mission of the C-130J is the immediate and responsive air movement and delivery of combat troops and supplies directly into objective areas through airlanding, extraction, airdrop, or other delivery techniques; and the air logistic support of all theater forces, including those engaged in combat operations. These aircraft will eventually replace C-130Es as they begin to retire after the turn of the century.

### Program Acquisition Costs (\$ Millions)

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Air Force</b>             |                |            |                |            |                |            |
| C-130J                       | (-)            | 25.6       | (-)            | 29.4       | (-)            | 30.6       |
| WC-130J                      | (2)            | 123.8      | (1)            | 75.2       | (-)            | -          |
| EC-130J                      | (1)            | 48.4       | (1)            | 84.8       | (-)            | -          |
| Subtotal                     | (3)            | 197.8      | (2)            | 189.4      | (-)            | 30.6       |
| <b>Navy</b>                  |                |            |                |            |                |            |
| KC-130J                      | (2)            | 117.1      | (2)            | 112.1      | (-)            | 12.3       |
| <b>NG &amp; RE</b>           |                |            |                |            |                |            |
| C-130J                       | (4)            | 226.0      | (3)            | 192.0      | (-)            | -          |
| <b>RDT&amp;E, AF</b>         |                | 3.7        |                | -          |                | -          |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 | (9)            | 544.6      | (7)            | 493.5      | (-)            | 42.9       |

**MISSILE PROGRAMS  
ARMY**

**ARMY TACTICAL MISSILE SYSTEM (ATACMS)**

**Description:** ATACMS is a surface-to-surface deep fire guided missile used to attack high value targets such as missile sites and command, control and communications complexes. The ATACMS missiles are fired from modified Multiple Launch Rocket System (MLRS) launchers. The Block I variants are armed with an anti-personnel/anti-material warhead. The Block IA integrates Global Positioning System (GPS) into the guidance system of the missile to provide more accurate information for orientation of the missile in position and azimuth. The Block IA carries fewer M74 bomblets than the Block I (down to 300 from 950) which gives the Block IA a range approximately twice that of the ATACMS Block I missile. The ATACMS Block II will be the delivery vehicle for the guided antiarmor BAT submunition. The FY 2000 buy is a combination of 110 Block IA and 61 Block II missiles. The ATACMS prime contractor is the Lockheed Martin Vought Systems Corporation of Dallas, TX.

**Mission:** To provide deep fires in near all-weather conditions, day or night. All ATACMS missiles are capable of effectively engaging high priority targets at ranges beyond the capability of cannons and rockets. The Block I configurations will be used to attack tactical surface-to-surface missile sites, air defense systems, logistics elements and other fixed facilities. The ATACMS Block II will be used against deep enemy armor.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item -- Block IA             | (109)          | 89.8       | (96)           | 87.8       | (110)          | 95.6       |
| Block II                     | -              | -          | (30)           | 48.9       | (61)           | 76.8       |
| Initial Spares               |                | <u>.9</u>  |                | <u>-</u>   |                | <u>-</u>   |
| Subtotal                     | (109)          | 90.7       | (126)          | 136.7      | (171)          | 172.4      |
| <b>RDT&amp;E</b>             |                | 82.8       |                | 45.7       |                | 27.5       |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>   |                | <u>-</u>   |
| <b>TOTAL</b>                 |                | 173.5      |                | 182.4      |                | 199.9      |

**MISSILE PROGRAMS  
ARMY**

**BRILLIANT ANTI-ARMOR (BAT) SUBMUNITION**

**Description:** The BAT is a dual-sensor (acoustics and infrared) smart submunition that autonomously seeks, identifies, and destroys moving armored targets. The BAT submunition is an unpowered, aerodynamically stable, glider approximately 36 inches long, 5.5 inches in diameter, and weighing 44 pounds. BAT's large footprint is designed to compensate for target location errors. A pre-planned product improvement (P3I) BAT combines acoustic, millimeter wave radar, and imaging infrared sensors through a common aperture to improve BAT's performance against cold stationary targets and other postulated high payoff targets, as well as enhancing its countermeasure resistance and inclement weather performance. BAT and P3I BAT are carried deep into enemy territory by the Block II variant of the Army Tactical Missile System (ATACMS). Northrop Grumman Corporation is the prime contractor for the BAT submunition, while Lockheed Martin Vought Systems Corporation is the contractor for the ATACMS Block II missile.

**Mission:** Deep attack of moving armored vehicles before they can influence the battle. In addition, P3I BAT's mission includes cold stationary targets, multiple rocket launchers, and surface-to-surface missile transporter erector launchers.

| Program Acquisition Costs<br>(\$ Millions) |     |                |            |                |            |                |            |
|--|-----|----------------|------------|----------------|------------|----------------|------------|
|  |     | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|  |     | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>                         |     |                |            |                |            |                |            |
| Item                                       | (-) | -              |            | (420)          | 100.1      | (846)          | 149.3      |
| Initial Spares                             |     | —              | -          |                | —          |                | —          |
| Subtotal                                   |     | -              |            | 100.1          |            | 149.3          |            |
| <b>RDT&amp;E</b>                           |     | 142.4          |            | 82.8           |            | 100.5          |            |
| <b>Military Construction</b>               |     | —              | -          | —              | -          | —              | -          |
| <b>TOTAL</b>                               |     | 142.4          |            | 182.9          |            | 249.8          |            |

**MISSILE PROGRAMS  
ARMY**

**JAVELIN ADVANCED ANTITANK WEAPON SYSTEM-MEDIUM (AAWS-M)**

**Description:** The JAVELIN Advanced Antitank Weapon System-Medium is a manportable fire and forget weapon system that is replacing the existing DRAGON antiarmor missile system in Army infantry, combat engineer, and scout units. JAVELIN is highly lethal against tanks with conventional and reactive armor. Special features of JAVELIN are the choice of top attack or direct fire mode, integrated day/night sight, soft launch permitting fire from enclosures, and imaging infrared seeker. Procurement funds buy missiles, Command Launch Units (CLU) and training devices. The prime contractor is the Raytheon TI and Lockheed Martin Javelin Joint Venture at Lewisville, TX and Orlando, FL.

**Mission:** To defeat armor targets.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (894)          | 138.2      | (3,316)        | 338.7      | (2,682)        | 406.1      |
| Initial Spares               |                | —          |                | 4.7        |                | 4.5        |
| Subtotal                     |                | 138.2      |                | 343.4      |                | 410.6      |
| <b>RDT&amp;E</b>             |                | 7.5        |                | 5.2        |                | .5         |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 145.7      |                | 348.6      |                | 411.1      |

**MISSILE PROGRAMS  
ARMY**

**Longbow Hellfire Missile**

**Description:** Longbow Hellfire integrates fire and forget technology in the Hellfire missile by incorporating a millimeter wave radar seeker in the Hellfire II aft section bus. The fire and forget guidance, which allows the helicopter to launch and then immediately remask, improves weapons system survivability by minimizing exposure to enemy fire. The Longbow system will be used on the Apache and Comanche helicopters. The primary advantages of the Longbow Hellfire missile include adverse weather capability (rain, snow, fog, smoke, and battlefield obscurants); millimeter wave countermeasures survivability; an advanced warhead capable of defeating all projected armor threats into the 21st century; and the capability of reprogramming the missile to adapt to changing threats and mission requirements. Work is being accomplished by the Longbow Limited Liability Company, a joint venture of Lockheed Martin Corporation, Orlando, FL and Northrop Grumman, Huntsville, AL.

**Mission:** Longbow Hellfire will provide an adverse weather, fire and forget, heavy antiarmor capability for the Apache and Comanche helicopters.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (1,100)        | 231.2      | (2,000)        | 345.1      | (2,200)        | 294.3      |
| <b>Initial Spares</b>        |                | —          |                | —          |                | —          |
| <b>Subtotal</b>              |                | 231.2      |                | 345.1      |                | 294.3      |
| <b>RDT&amp;E</b>             |                | -          |                | -          |                | -          |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 231.2      |                | 345.1      |                | 294.3      |

**MISSILE PROGRAMS  
ARMY**

**MULTIPLE LAUNCH ROCKET SYSTEM (MLRS)**

**Description:** The Multiple Launch Rocket System (MLRS) consists of a tracked, self-propelled launcher loader, disposable rocket pods, and fire control equipment firing 227 mm ballistic rockets loaded with anti-personnel/anti-materiel bomblets. Starting in FY 1998, an Improved Fire Control System and an Improved Launcher Mechanical System upgraded the MLRS launcher to the M270A1 configuration. Beginning with the FY 2000 buy, the Army is initiating a five year multiyear contract for the launchers. The prime contractor is Lockheed Martin Vought Systems Corporation of Dallas, TX.

**Mission:** To neutralize or suppress enemy field artillery and air defense systems and supplement cannon artillery fires.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Rockets                      | (624)          | 19.2       | (-)            |            | (-)            | 3.3        |
| Launchers                    | (21)           | 123.7      | (24)           | 120.1      | (47)           | 146.6      |
| Initial Spares               |                | <u>.3</u>  |                | <u>6.8</u> |                | <u>6.3</u> |
| Subtotal                     |                | 143.2      |                | 126.9      |                | 156.2      |
| <b>RDT&amp;E</b>             |                | 33.0       |                | 25.2       |                | 36.5       |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>   |                | <u>-</u>   |
| <b>TOTAL</b>                 |                | 176.2      |                | 152.1      |                | 192.7      |

# **MISSILE PROGRAMS ARMY**

## **AVENGER**

**Description:** The Avenger is a light-weight highly mobile and transportable surface-to-air missile system consisting of a Stinger missile launcher mounted on a High Mobility Multipurpose Wheeled Vehicle (HMMWV). Part of the Forward Area Air Defense System (FAADS), the Avenger is designed to counter hostile cruise missiles, unmanned aerial vehicles, and low-flying, high-speed aircraft. The Avenger is equipped with eight ready Stinger missiles and .50 caliber machine gun. It has a two-man crew and can operate in day or night, clear or adverse weather conditions. The Avenger prime contractor is Boeing Aerospace, Huntsville, AL.

**Mission:** Provides line of sight low altitude air defense protection.

### **Program Acquisition Costs (\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (-)            | 0          | (20)           | 34.9       | (20)           | 33.8       |
| <b>Initial Spares</b>        |                | -          |                | -          |                | -          |
| <b>Subtotal</b>              |                | 0          |                | 34.9       |                | 33.8       |
| <b>RDT&amp;E</b>             |                | -          |                | -          |                | -          |
| <b>Military Construction</b> |                | -          |                | -          |                | -          |
| <b>TOTAL</b>                 |                | 0          |                | 34.9       |                | 33.8       |



# **MISSILE PROGRAMS NAVY**

## **ROLLING AIRFRAME MISSILE (RAM)**

**Description:** The Rolling Airframe Missile (RAM) is a high fire-power, low cost, lightweight complementary self-defense system to engage anti-ship cruise missiles. The prime contractor was Hughes Missile Systems Company, Tucson, AZ, which was recently acquired by Raytheon Corporation.

**Mission:** The mission of the RAM is to provide high firepower close-in defense of combatant and auxiliary ships by utilizing a dual mode, passive radio frequency/infrared missile in a compact 21 cell launcher.

### **Program Acquisition Costs (\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (100)          | 41.0       | (100)          | 44.6       | (90)           | 45.4       |
| <b>Initial Spares</b>        |                | <u>2.2</u> |                | <u>1.9</u> |                | <u>1.7</u> |
| <b>Subtotal</b>              |                | 43.2       |                | 46.5       |                | 47.1       |
| <b>RDT&amp;E</b>             |                | 13.2       |                | 4.2        |                | 6.5        |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 56.4       |                | 50.7       |                | 53.6       |

**MISSILE PROGRAMS  
NAVY**

**STANDARD MISSILE**

**Description:** The STANDARD missile family consists of various air defense missiles including supersonic, medium and extended range, surface-to-air and surface-to-surface missiles. The prime contractor is Raytheon Corporation, Lowell, MA., which recently acquired Hughes Missile Systems Company.

**Mission:** The mission of the STANDARD missile family is to provide all-weather, anti-aircraft and surface-to-surface armament for cruisers, destroyers and guided missile frigates.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |             |
|------------------------------|----------------|------------|----------------|------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |            |                |            |                |             |
| <b>Item</b>                  | (114)          | 176.0      | (120)          | 214.2      | (91)           | 198.9       |
| <b>Initial Spares</b>        |                | <u>1.2</u> |                | <u>8.2</u> |                | <u>13.0</u> |
| <b>Subtotal</b>              |                | 177.2      |                | 222.4      |                | 211.9       |
| <b>RDT&amp;E</b>             |                | .5         |                | 1.3        |                | 1.2         |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>   |                | <u>-</u>    |
| <b>TOTAL</b>                 |                | 177.7      |                | 223.7      |                | 213.1       |

**MISSILE PROGRAMS  
NAVY**

**TOMAHAWK**

**Description:** The TOMAHAWK cruise missile weapon system is a long-range conventionally or nuclear armed system which is sized to fit torpedo tubes and capable of being deployed from a variety of surface ship and submarine platforms. The prime contractor is Raytheon. FY 2000 funding supports the remanufacture of 148324 Tomahawk BLK IID Missiles into the BLK IIIC configuration.

**Mission:** The mission of the TOMAHAWK is to provide a long-range cruise missile launched from a variety of platforms against land and sea targets.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (-)            | 26.3       | (-)            | 33.0       | (148)          | 50.9       |
| <b>Initial Spares</b>        |                | <u>1.4</u> |                | <u>3.2</u> |                | <u>0</u>   |
| <b>Subtotal</b>              |                | 27.7       |                | 36.2       |                | 50.9       |
| <b>RDT&amp;E</b>             |                | 101.7      |                | 165.7      |                | 147.2      |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>   |                | <u>-</u>   |
| <b>TOTAL</b>                 |                | 129.4      |                | 201.9      |                | 198.1      |

**MISSILE PROGRAMS  
NAVY**

**TRIDENT II**

**Description:** The TRIDENT II (D-5) is a submarine launched ballistic missile with greater range, payload capability and accuracy than the TRIDENT I. The major contractor is Lockheed Martin Missiles and Space Company, Sunnyvale, CA.

**Mission:** The mission of the TRIDENT II is to deter nuclear war by means of assured retaliation in response to a major attack on the U.S. and to enhance nuclear stability by providing no incentive for enemy first strike.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (5)            | 266.6      | (5)            | 312.4      | (12)           | 488.9      |
| Facility Support             |                | 2.1        |                | .2         |                | 2.2        |
| Initial Spares               |                | <u>1.7</u> |                | <u>5.4</u> |                | <u>-</u>   |
| Subtotal                     |                | 270.4      |                | 318.0      |                | 491.1      |
| <b>RDT&amp;E</b>             |                | 35.6       |                | 56.4       |                | 45.9       |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>   |                | <u>-</u>   |
| <b>TOTAL</b>                 |                | 306.0      |                | 374.4      |                | 537.0      |

**MISSILE PROGRAMS  
MARINE CORPS**

**JAVELIN ADVANCED ANTITANK WEAPON SYSTEM-MEDIUM (AAWS-M)**

**Description:** The JAVELIN Advanced Antitank Weapon System-Medium will replace the existing DRAGON as the infantry medium antitank weapon for the Marine Corps. It is a manportable fire and forget weapon system for the dismounted infantry capable of defeating both conventional and reactive armor. Highly lethal, the JAVELIN can operate in day/night adverse weather conditions, and in the presence of battlefield obscurants. Special features of JAVELIN are the choice of top attack or direct fire mode, integrated day/night sight, soft launch permitting fire from enclosures, and imaging infrared seeker. Procurement funds buy both missiles and Command Launch Units (CLU). The prime contractor is the Raytheon TI and Lockheed Martin Javelin Joint Venture at Lewisville, TX and Orlando, FL.

**Mission:** To defeat armor targets.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (380)          | 58.0       | (741)          | 82.2       | (954)          | 91.8       |
| Initial Spares               |                | -          |                | .5         |                | .9         |
|                              |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| Subtotal                     |                | 58.0       |                | 82.7       |                | 92.7       |
| <b>RDT&amp;E</b>             |                | .2         |                | .2         |                | .2         |
| <b>Military Construction</b> |                | -          |                | -          |                | -          |
|                              |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>TOTAL</b>                 |                | 58.2       |                | 82.9       |                | 92.9       |

**MISSILE PROGRAMS  
DOD-WIDE/JOINT**

**ADVANCED MEDIUM RANGE AIR-TO- AIR MISSILE (AMRAAM)**

**Description:** The Advanced Medium Range Air-to-Air Missile (AMRAAM) is an all-weather, all-environment radar guided missile developed to improve capabilities against very low-altitude and high-altitude, high-speed targets in an electronic countermeasures environment. AMRAAM is a joint Navy/Air Force program led by the Air Force. The prime contractor is Raytheon Corporation, Lowell, MA. The FY 2000 program provides for continuation of production.

**Mission:** The mission of the AMRAAM is to destroy low and high altitude, high-speed enemy targets in an electronic countermeasures environment.

**Program Acquisition Costs  
(\$ Millions)**

|                                | <u>FY 1998</u> |              | <u>FY 1999</u> |              | <u>FY 2000</u> |              |
|--------------------------------|----------------|--------------|----------------|--------------|----------------|--------------|
|                                | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>   |
| <b>Procurement</b>             |                |              |                |              |                |              |
| <i>Air Force</i>               | (173)          | 101.9        | (180)          | 92.2         | (210)          | 97.3         |
| <i>Navy</i>                    | (120)          | 54.1         | (100)          | 51.1         | (100)          | 46.3         |
| <b>Item Subtotal</b>           | (293)          | 156.0        | (280)          | 143.3        | (310)          | 143.6        |
| <i>Air Force</i>               |                | 1.1          |                | 2.7          |                | .2           |
| <i>Navy</i>                    |                | .6           |                | .9           |                | .2           |
| <b>Initial Spares Subtotal</b> |                | 1.7          |                | 3.6          |                | .4           |
| <b>Procurement Subtotal</b>    |                | <u>157.7</u> |                | <u>146.9</u> |                | <u>144.0</u> |
| <b>RDT&amp;E</b>               |                |              |                |              |                |              |
| <i>Air Force</i>               |                | 39.2         |                | 35.7         |                | 49.8         |
| <i>Navy</i>                    |                | 5.5          |                | 4.7          |                | 13.5         |
| <b>RDT&amp;E Subtotal</b>      |                | 44.7         |                | 40.4         |                | 63.3         |
| <b>Military Construction</b>   |                | -            |                | -            |                | -            |
| <i>Air Force</i>               |                | 142.2        |                | 130.6        |                | 147.3        |
| <i>Navy</i>                    |                | 60.2         |                | 56.7         |                | 60.0         |
| <b>TOTAL</b>                   |                | 202.4        |                | 187.3        |                | 207.3        |

**MISSILE PROGRAMS  
DOD-WIDE/JOINT**

**JOINT AIR-TO-SURFACE STANDOFF MISSILE (JASSM)**

**Description:** The Joint Air-to-Surface Standoff Missile (JASSM) is a joint Air Force and Navy development program led by the Air Force to provide a conventional precision guided, long range standoff cruise missile that can be delivered from both fighters and bombers. Lockheed Martin Integrated Systems, Inc., Orlando, FL was selected as the contractor to continue development efforts. FY 2000 funding supports continued development with low rate of production starting in FY 2000.

**Mission:** The mission of the JASSM is to destroy targets from a long-range standoff position deliverable by both fighters and bombers.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (-)            | -          | (-)            | -          | (-)            | -          |
| Initial Spares               |                | -          |                | -          |                | -          |
|                              |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| Subtotal                     |                | -          |                | -          |                | -          |
| <b>RDT&amp;E</b>             |                |            |                |            |                |            |
| Air Force                    |                | 161.9      |                | 128.8      |                | 166.4      |
| Navy                         |                | <u>5.3</u> |                | <u>2.1</u> |                | <u>2.0</u> |
| Subtotal                     |                | 167.2      |                | 130.9      |                | 168.4      |
| <b>Military Construction</b> |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| TOTAL                        |                | 167.2      |                | 130.9      |                | 168.4      |

# **MISSILE PROGRAMS DOD-WIDE/JOINT**

## **JOINT STANDOFF WEAPON (JSOW)**

**Description:** The Joint Standoff Weapon (JSOW - AGM-154) program is a joint development effort to provide day, night and adverse weather environment munition capability. The JSOW has three variants and development is shared between the Navy and the Air Force. The JSOW baseline development (BLU-97 Submunition) is led by the Navy and provides a day, night, and all-weather environment munition. The JSOW BLU-108 development is led by the Air Force and incorporates the Sensor Fuzed Weapon (SFW), providing a "smart" JSOW munition. The JSOW unitary warhead development is led by the Navy and provides terminal accuracy via Automatic Target Acquisition Seeker Technology. Flexible variants on a common truck reduces integration costs. The prime contractor is Raytheon Missile Systems Corp. The FY 2000 budget request continues production.

**Mission:** JSOW is a primary standoff precision guided munition. The day/night, adverse weather capability provides continuous munitions operations from a survivable standoff range.

### **Program Acquisition Costs (\$ Millions)**

|                              | <u>FY 1998</u> |             | <u>FY 1999</u> |              | <u>FY 2000</u> |              |
|------------------------------|----------------|-------------|----------------|--------------|----------------|--------------|
|                              | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>   |
| <b>Procurement</b>           |                |             |                |              |                |              |
| <i>Air Force</i>             | (45)           | 21.3        | (96)           | 52.0         | (193)          | 80.0         |
| <i>Navy</i>                  | (135)          | 61.3        | (328)          | 117.0        | (615)          | 154.9        |
| <b>Item Subtotal</b>         | (180)          | 82.6        | (414)          | 169.0        | (808)          | 234.9        |
| <b>Initial Spares (Navy)</b> |                | -           |                | .5           |                | .01          |
| <b>Subtotal</b>              |                | <u>82.6</u> |                | <u>169.5</u> |                | <u>235.0</u> |
| <b>RDT&amp;E</b>             |                |             |                |              |                |              |
| <i>Air Force</i>             |                | 21.5        |                | 14.8         |                | 10.3         |
| <i>Navy</i>                  |                | <u>74.2</u> |                | <u>47.3</u>  |                | <u>30.6</u>  |
| <b>Subtotal</b>              |                | 95.7        |                | 62.1         |                | 40.9         |
| <b>Military Construction</b> |                | -           |                | -            |                | -            |
| <b>TOTAL</b>                 |                | 178.3       |                | 231.6        |                | 275.9        |



**MISSILE PROGRAMS  
DOD-WIDE/JOINT**

**AIM-9X, Sidewinder**

**Description:** The AIM-9X Sidewinder program is a joint Navy/Air Force program, with the Navy as the lead service, that provides the next generation short range air-to-air missile. The threshold aircraft are the F-15C/D and the F/A-18C/D using the Joint Helmet Mounted Cueing System. Objective aircraft include the F-16 and F-22. The AIM-9X program is a flagship program for Cost as an Independent Variable. A Milestone II Decision was made on December 13, 1996, proceeding into Engineering and Manufacturing Development (EMD). The current contractor is Raytheon Corporation. The FY 2000 budget request includes funding to continue the EMD and begin production.

**Mission:** The primary mission of the AIM-9X is a launch and leave, air combat munition that uses passive infrared energy for acquisition and tracking of enemy aircraft and complements the Advanced Medium Range Air to Air Missile.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |             | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|------------------------------|----------------|-------------|----------------|-------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |             |                |             |                |             |
| <i>Air Force</i>             | (-)            | -           | (-)            | -           | (80)           | 31.1        |
| <i>Navy</i>                  | (-)            | .3          | (-)            | -           | (75)           | 29.4        |
|                              |                |             |                |             | (155)          | 60.5        |
| <b>Initial Spares</b>        |                |             |                |             |                |             |
| <i>Navy</i>                  | (-)            | -           | (-)            | -           | (-)            | .7          |
| <b>RDT&amp;E</b>             |                |             |                |             |                |             |
| <i>Navy</i>                  |                | 55.1        |                | 64.6        |                | 40.1        |
| <i>Air Force</i>             |                | <u>51.2</u> |                | <u>52.6</u> |                | <u>41.0</u> |
| <b>RDT&amp;E Subtotal</b>    |                | 106.3       |                | 117.2       |                | 81.1        |
| <b>Military Construction</b> |                | -           |                | -           |                | -           |
| <b>TOTAL</b>                 |                | 106.3       |                | 117.2       |                | 142.3       |

**VESSEL PROGRAMS  
NAVY**

**DDG-51 AEGIS DESTROYER**

**Description:** The ARLEIGH BURKE Flight IIA Class Guided Missile Destroyer is 471 feet long and displaces 9,300 tons (full load). It is armed with a Vertical Launching System accommodating 96 missiles, including TOMAHAWK, SM-2 and ASROC. Prime features include the SPY-1D and SPS-67(V)3 radars, SQS-53C sonar, three MK-99 illuminators, 5"/54 rapid fire gun with SEAFIRE fire control system, SLQ-32 Electronic Warfare System and decoy launchers, and 6 torpedo tubes in 2 triple mounts. The ship also carries two LAMPS (Light Airborne Multi-Purpose System) Mk III helicopters. The DDG-51 is powered by four General Electric LM2500 gas turbines which can drive the ship in excess of 31 knots. The lead ship was awarded to Bath Iron Works, Bath, ME in FY 1985. Ingalls Shipbuilding Division of Pascagoula, MS has also been awarded contracts for follow-on ships. The FY 2000 budget supports the continuation of the FY 1998-2001 multi-year procurement of 14 DDG-51 ships (3 ships per year with an option for a fourth that was exercised in FY 1998 and a remaining option for a fourth ship in FY 2001).

**Mission:** The DDG-51 Class ships operate defensively and offensively as units of Carrier Battle Groups and Surface Action Groups, in support of Underway Replenishment Groups and the Marine Amphibious Task Force in multi-threat environments that include air, surface, and subsurface threats.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |             | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|------------------------------|----------------|-------------|----------------|-------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |             |                |             |                |             |
| Item                         | (4)            | 3,473.3     | (3)            | 2,659.0     | (3)            | 2,681.7     |
| Outfitting                   |                | 18.5        |                | 36.0        |                | 35.1        |
| Post Delivery                |                | <u>38.2</u> |                | <u>48.5</u> |                | <u>35.2</u> |
| Subtotal                     |                | 3,530.0     |                | 2,743.5     |                | 2,752.0     |
| <b>RDT&amp;E</b>             |                | 78.4        |                | 155.9       |                | 176.0       |
| <b>Military Construction</b> |                | <u>13.2</u> |                | <u>-</u>    |                | <u>-</u>    |
| <b>TOTAL</b>                 |                | 3,621.6     |                | 2,899.4     |                | 2,928.0     |

**VESSEL PROGRAMS  
NAVY**

**NEW ATTACK SUBMARINE (NSSN)**

**Description:** The NSSN program provides for the development of a new nuclear powered attack submarine to replace existing ships as they are retired. The NSSN will be 366 feet long and will displace 7,506 tons while submerged. The first NSSN was funded in FY 1998. The FY 2000 RDT&E funding provides for the continued development of technologies for the NSSN. The FY 2000 procurement amount funds the long lead non-nuclear components for the third submarine. The contractors are Newport News Shipbuilding and Electric Boat Division of General Dynamics.

**Mission:** NSSN is being designed to meet the potential threats of the next century in a multi-mission capable submarine that has the ability to provide covert sustained presence in denied waters. NSSN operational missions will include: surveillance, strike warfare, mine countermeasures, and anti-submarine warfare.

| Program Acquisition Costs<br>(\$ Millions) |     |                |            |                |            |                |            |
|--|-----|----------------|------------|----------------|------------|----------------|------------|
|  |     | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|  |     | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>                         |     |                |            |                |            |                |            |
| Item                                       | (1) |                | 2,510.0    | (1)            | 1,995.5    | (-)            | 748.5      |
| Outfitting                                 |     |                | -          |                | -          |                | -          |
| Post Delivery                              |     |                | <u>-</u>   |                | <u>-</u>   |                | <u>-</u>   |
| Subtotal                                   | (1) |                | 2,510.0    | (1)            | 1,995.5    |                | 748.5      |
| <b>RDT&amp;E</b>                           |     |                |            |                |            |                |            |
|  |     |                | 465.1      |                | 358.4      |                | 357.2      |
| <b>Military Construction</b>               |     |                |            |                |            |                |            |
|  |     |                | <u>-</u>   |                | <u>-</u>   |                | <u>-</u>   |
| <b>TOTAL</b>                               |     |                | 2,975.1    |                | 2,353.9    |                | 1,105.7    |

**VESSEL PROGRAMS  
NAVY**

**SEAWOLF ATTACK SUBMARINE (SSN-21)**

**Description:** The Seawolf Attack Submarine program provides for the development and procurement of the most advanced and robust attack submarine built by the United States. It is approximately 353 feet long and displaces 9,150 tons of water while submerged. Three submarines are currently under construction at the Electric Boat Division of the General Dynamics Corporation in Groton, CT. The first ship, the USS Seawolf, delivered to the Navy in July, 1997, and is currently undergoing a year-long post-shakedown availability. The SSN-22 (Connecticut) was commissioned in December, 1998. The last of the Seawolf class, SSN 23, is 52% complete and will serve as the transition ship going to the New Attack Submarine (NSSN) which began construction in FY 1998.

**Mission:** The mission of the SSN-21 is to provide multi-mission submarine capabilities in the areas of surveillance, strike warfare, mine countermeasures, ASW, forward presence and deterrence.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|------------------------------|----------------|------------|----------------|-------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |            |                |             |                |             |
| Item                         | (-)            | 149.6      | (-)            | -           | (-)            |             |
| Outfitting                   |                | 1.3        |                | 1.2         |                | 10.9        |
| Post Delivery                |                | <u>4.9</u> |                | <u>23.5</u> |                | <u>17.0</u> |
| Subtotal                     |                | 155.8      |                | 24.7        |                | 27.9        |
| <b>RDT&amp;E</b>             |                | 66.5       |                | 33.1        |                | 38.5        |
| <b>Military Construction</b> |                | =          |                | =           |                | =           |
| <b>TOTAL</b>                 |                | 222.3      |                | 57.8        |                | 66.4        |

**VESSEL PROGRAMS  
NAVY**

**LPD-17 SAN ANTONIO CLASS AMPHIBIOUS TRANSPORT DOCK**

**Description:** The SAN ANTONIO Class Amphibious Transport Dock ships are functional replacements for 41 ships of four classes of amphibious ships. The LPD 17 design includes systems configurations that reduce operating and support costs and facilitate operational performance improvements. System engineering and integration efforts have developed further reductions in life cycle costs and integrated performance upgrades in a rapid, affordable manner. Possible improvements include composite masts, advanced sensors, advanced computers, advanced command and control software, advanced information systems technologies, and ship based logistics concepts. The contractors are Avondale Industries, New Orleans, LA, and Bath Iron Works, Bath, Maine

**Mission:** The LPD-17 class ships embark, transport, and land elements of Marine landing forces in an amphibious assault by helicopters, landing craft, and amphibious vehicles. As tactics, techniques, and tools for naval expeditionary warfare continue to evolve, the LPD-17 class configuration must have the flexibility to respond to this evolutionary process, since these ships are expected to be in service until almost 2050.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (-)            | 96.1       | (1)            | 636.9      | (2)            | 1,508.3    |
| <b>Outfitting</b>            |                | -          |                | -          |                | 12.2       |
| Subtotal                     |                | 96.1       |                | 636.9      |                | 1,520.5    |
| <b>RDT&amp;E</b>             |                | 134.7      |                | 1.3        |                | 2.6        |
| <b>Military Construction</b> |                | _____      |                | _____      |                | _____      |
| TOTAL                        |                | 230.8      |                | 638.2      |                | 1,523.1    |

**VESSEL PROGRAMS  
NAVY**

**ADC(X) AUXILIARY DRY CARGO SHIP**

**Description:** ADC(X) is a new United States Navy ship acquisition program. The ADC(X) will replace the aging fleet of refrigerated cargo and food stores ships (designated AFS Class) and ammunition ships (designated AE Class) in the Navy's Combat Logistics Force.

**Mission:** The ADC(X) class ships will provide a steady stream of ammunition, spare parts and provisions (dry, refrigerated and frozen) to naval forces at sea in its role as a shuttle ship.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         |                | -          |                | -          | (1)            | 440.0      |
| Outfitting                   |                | -          |                | -          |                | -          |
| Post Delivery                |                | -          |                | -          |                | -          |
| Subtotal                     |                | -          |                | -          |                | 440.0      |
| <b>RDT&amp;E</b>             |                | -          |                | -          |                | 13.1       |
| <b>Military Construction</b> |                | -          |                | -          |                | -          |
| <b>TOTAL</b>                 |                | -          |                | -          |                | 453.1      |

**TRACKED COMBAT VEHICLES  
ARMY**

**ABRAMS (M1) TANK UPGRADE PROGRAM**

**Description:** The M1 Tank Upgrade program will provide continued modernization to the Abrams tank fleet by upgrading older M1 tanks to the M1A2 configuration. Upgrades include improved armor, a 120mm gun, a Commander's Independent Thermal Viewer, an Improved Commander's Weapon Station, digitized communications and nuclear, biological and chemical protection. Beginning in FY 99 the upgrades also include 2<sup>nd</sup> generation Forward Looking Infrared sensors, an under Armor Auxiliary power Unit and a Thermal Management System. The prime contractor is General Dynamics Land Systems of Sterling Heights, MI..

**Mission:** The mission of the M1 Upgrade program is to provide a main battle tank with increased survivability, mobility, firepower, and lethality for U.S. armor forces.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |             | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|-------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |             |                |            |                |            |
| Item                         | (120)          | 571.8       | (120)          | 683.0      | (120)          | 636.4      |
| Initial Spares               |                | <u>13.4</u> |                | <u>9.8</u> |                | <u>9.8</u> |
| Subtotal                     |                | 595.2       |                | 692.8      |                | 646.2      |
| <b>RDT&amp;E</b>             |                | 37.0        |                | 9.4        |                | 12.1       |
| <b>Military Construction</b> |                | —           |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 622.2       |                | 702.2      |                | 658.3      |

**TRACKED COMBAT VEHICLES  
ARMY**

**BRADLEY BASE SUSTAINMENT PROGRAM**

**Description:** The Bradley Upgrade program continues to modernize the Bradley Fighting Vehicle fleet. The program includes upgrading first and second-generation Bradley vehicles to the current M2A2 (Operation Desert Storm) configuration as well as the M2A3 upgrade program that provides enhanced command and control, situational awareness, increased lethality and survivability and improved sustainability and supportability. The prime contractor is United Defense Limited partnership, San Jose, CA.

**Mission:** The mission of the Bradley upgrade program is to provide a fighting vehicle with enhanced command and control, situational awareness, lethality and sustainability.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (-)            | 225.4      | (-)            | 363.2      |                | 336.4      |
| <b>Initial Spares</b>        |                | .3         |                | 7.1        |                | 9.2        |
| <b>Subtotal</b>              |                | 595.8      |                | 685.4      |                | 345.6      |
| <b>RDT&amp;E</b>             |                | 76.7       |                | 70.4       |                | 3.2        |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 302.4      |                | 440.7      |                | 348.8      |



# TRACKED COMBAT VEHICLES ARMY

## CRUSADER

**Description:** The Crusader system is the Army's next generation self-propelled howitzer (SPH) and artillery re-supply vehicle (RSV) designed to support ARMY XXI and the Army After Next (AAN). Crusader will incorporate advanced technologies to increase rate-of-fire in excess of 250% improve accuracy, mobility and ammunition handling while reducing ownership costs by 25% and crew size by 33%. This system provides the firepower required to support the force commander's goals of dominating the maneuver battle, leveraging information dominance, and protecting the force. The prime contractor is United Defense Limited Partnership, (UDLP) Minneapolis, MN. On 15 November 1994 Crusader entered the Program Definition and Risk Reduction (PDRR) acquisition phase. The Army will field 1138 Crusader systems between FY 05 and FY 14 displacing the M109Ag, Paladin, SPH (an upgraded 40 year-old howitzer) and M992, Field Artillery Ammunition Supply Vehicle.

**Mission:** Provides the advanced Direct Support/General Support 155mm self propelled howitzer (SPH) and resupply vehicle (RSV) required to support the future maneuver force of Army XXI and the AAN fire support and artillery ammunition resupply capability to the maneuver force.

### Program Acquisition Costs (\$ Millions)

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (-)            | -          | (-)            | -          | (-)            | -          |
| Initial Spares               |                | -          |                | -          |                | -          |
|                              |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| Subtotal                     |                | -          |                | -          |                | -          |
| <b>RDT&amp;E</b>             |                | 301.2      |                | 313.6      |                | 343.9      |
| <b>Military Construction</b> |                | -          |                | -          |                | -          |
|                              |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>TOTAL</b>                 |                | 301.2      |                | 313.6      |                | 343.9      |

**SPACE PROGRAMS  
ARMY**

**DEFENSE SATELLITE COMMUNICATIONS SYSTEM (GROUND SYSTEMS) (DSCS)**

**Description:** The Defense Satellite Communications System (Ground Systems) develops strategic and tactical Ground Subsystem equipment to support unique and vital Command, Control, Communications and Intelligence (C3I) systems for the worldwide Super High Frequency (SHF) Defense Satellite Communications System (DSCS) program. DSCS provides war-fighters multiple channels of tactical connectivity as well as interface with strategic networks and national level decision-makers.

**Mission:** DSCS provides SHF wide-band and anti-jam satellite communications supporting critical national strategic and tactical C3I requirements.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |             | <u>FY 2000</u> |             |
|------------------------------|----------------|------------|----------------|-------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>  | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |            |                |             |                |             |
| <b>Item</b>                  | (-)            | 82.4       | (-)            | 94.2        | (-)            | 68.5        |
| <b>Initial Spares</b>        |                | <u>5.7</u> |                | <u>16.0</u> |                | <u>11.8</u> |
| <b>Subtotal</b>              |                | 88.1       |                | 110.2       |                | 80.3        |
| <b>RDT&amp;E</b>             |                | 13.8       |                | 16.1        |                | 9.0         |
| <b>Military Construction</b> |                | <u>-</u>   |                | <u>-</u>    |                | <u>-</u>    |
| <b>TOTAL</b>                 |                | 101.9      |                | 126.3       |                | 89.3        |

**SPACE PROGRAMS  
AIR FORCE**

**DEFENSE SUPPORT PROGRAM (DSP)**

**Description:** The Defense Support Program provides worldwide missile attack warning and surveillance. It specifically provides an early detection and warning of ballistic missiles and space launches during the boost phase. It is also capable of providing detection and reporting of nuclear detonations. A total of 23 DSP satellites have been procured, 5 of which remain to be launched over the next six years. DSP-19 through DSP-22 will be launched with Titan IV boosters using an Inertial Upper Stage (IUS); DSP-23 will be launched with the heavy variant of the Evolved Expendable Launch Vehicle (EELV). The prime contractor for DSP is TRW, Los Angeles, CA. Aerojet, Los Angeles, CA makes the primary sensor.

**Mission:** Improves U.S. capability to detect and assess missile launches and detonations both in and outside of earth atmosphere.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (-)            | 85.8       | (-)            | 88.7       | (-)            | 111.6      |
| <b>Initial Spares</b>        |                | —          |                | —          |                | —          |
| <b>Subtotal</b>              |                | 85.8       |                | 88.7       |                | 111.6      |
| <b>RDT&amp;E</b>             |                | 17.6       |                | 11.8       |                | 7.5        |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 103.4      |                | 100.5      |                | 119.1      |

**SPACE PROGRAMS  
AIR FORCE**

**MEDIUM LAUNCH VEHICLES (MLV)**

**Description:** Provides for procurement and launch of Medium Launch Vehicles (MLVs) for use in launching medium weight satellites into orbit. The prime contractor for the Delta MLV is Boeing, Huntington Beach, California. The prime contractor for the Atlas MLV is Lockheed Martin, Denver, Colorado.

**Mission:** The Delta MLV launches NAVSTAR Global Positioning System satellites and experimental satellites from the Space Test Program. The Atlas MLV launches Defense Satellite Communications System (DSCS) satellites.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (4)            | 195.5      | (5)            | 175.1      | (-)            | 64.9       |
| <b>Initial Spares</b>        |                | —          |                | —          |                | —          |
| <b>Subtotal</b>              |                | 195.5      |                | 175.1      |                | 64.9       |
| <b>RDT&amp;E</b>             |                | 2.0        |                | 7.3        |                | 1.2        |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 197.5      |                | 182.4      |                | 66.1       |

**SPACE PROGRAMS  
AIR FORCE**

**MILSTAR**

**Description:** Milstar is a joint service program to develop and acquire communications satellites featuring Extremely High Frequency (EHF) transponders for survivable, jam-resistant, worldwide, secure communications for both strategic and tactical users. These satellites are launched with Titan IV boosters with a Centaur Upper Stage. The first two satellites were launched in 1994 and 1996 and provide low data rate communications. The remaining four satellites will be launched from 1999 through 2002 and will provide medium data rate communications. The prime contractor for the Milstar Program is Lockheed, Sunnyvale, California. Principal subcontractors are TRW, Redondo Beach, California, and Hughes, El Segundo, California.

**Mission:** The Milstar system will support the highly survivable, jam-resistant, worldwide, secure communications needs of the President and commanders for the command and control of U.S. strategic and tactical forces through all levels of conflict.

**Program Acquisition Costs  
(\$ Millions)**

|                                  | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|----------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                                  | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>               |                |            |                |            |                |            |
| <b>Item</b>                      | (-)            | -          | (-)            | -          | (-)            | -          |
| <b>Initial Spares</b>            |                | -          |                | -          |                | -          |
|                                  |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>Subtotal</b>                  |                | -          |                | -          |                | -          |
| <br><b>RDT&amp;E</b>             |                | 609.7      |                | 546.5      |                | 361.3      |
| <br><b>Military Construction</b> |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>TOTAL</b>                     |                | 609.7      |                | 546.5      |                | 361.3      |

**SPACE PROGRAMS  
AIR FORCE**

**NAVSTAR GLOBAL POSITIONING SYSTEM (NAVSTAR GPS)**

**Description:** The NAVSTAR Global Positioning System (NAVSTAR GPS) provides a global, three-dimensional positioning, velocity and time information system for aircraft, artillery, ships, tanks and other weapons delivery systems. Boeing, Seal Beach, California, manufactured the 28 Block II/IIA satellites, the last of which was launched in November 1997. Prime contractor for the 21 Block IIR satellites is Lockheed Martin, Valley Forge, Pennsylvania. The first Block IIR satellite was launched in mid 1997. Boeing, Seal Beach, California, is manufacturing 6 Block IIF satellites awarded in FY 1997 and FY 1998. Additional Block IIF satellites will be procured in FY 2001 and subsequent years, and these satellites will incorporate a second and third civil signal as well as Navigation Warfare (NAVWAR) improvements. Blocks II, IIA, and IIR are launched with Delta boosters, and Block IIF will be launched with the Evolved Expendable Launch Vehicle (EELV). The fully operational GPS constellation consists of 24 satellites in orbit at all times.

**Mission:** To provide a global system of satellites for navigation and position locating purposes

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (3)            | 162.6      | (-)            | 93.6       | (-)            | 170.9      |
| <b>Initial Spares</b>        |                | —          |                | —          |                | —          |
| <b>Subtotal</b>              |                | 162.6      |                | 93.6       |                | 170.9      |
| <b>RDT&amp;E</b>             |                | 96.4       |                | 94.4       |                | 98.9       |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 259.4      |                | 188.0      |                | 269.8      |

**SPACE PROGRAMS  
AIR FORCE**

**TITAN SPACE LAUNCH VEHICLES**

**Description:** Provides for the procurement and launch of Titan IV and the refurbishment of Titan II Space Launch Vehicles. The Titan IV is used to launch the Department's heavier payloads and can accommodate either the Centaur upper stage or the Inertial Upper Stage (IUS). A total of 30 Titan IV boosters have been procured, of which 14 remain to be launched over the next 4 years. Lockheed Martin, Denver, Colorado is the prime contractor. Alliant, Salt Lake City, Utah makes the solid rocket motors. Aerojet, Sacramento, California makes the liquid rocket engines. Boeing, Seattle, WA provides the IUS.

**Mission:** Program provides the capability to launch critical DoD heavyweight operational payloads through FY 2002.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (-)            | 453.3      | (-)            | 583.8      | (-)            | 431.3      |
| <b>Initial Spares</b>        |                | —          |                | —          |                | —          |
| <b>Subtotal</b>              |                | 453.3      |                | 583.8      |                | 431.3      |
| <b>RDT&amp;E</b>             |                | 62.4       |                | 77.2       |                | 45.4       |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 515.7      |                | 661.0      |                | 476.7      |

**SPACE PROGRAMS  
AIR FORCE**

**EVOLVED EXPENDABLE LAUNCH VEHICLE (EELV)**

**Description:** EELV will replace the current families of Delta, Atlas, and Titan expendable launch vehicles with a new, lower cost program for the acquisition of space launch services for 2002 and subsequent years. The goal of EELV is to reduce launch costs 25-50 percent over current systems by redesigning launch hardware and ground processing facilities and by introducing commercial business practices. The cost of developing EELV will be shared by the Air Force and the two EELV contractors. EELV began the Demonstration and Validation (Dem/Val) phase in December 1996 and entered Engineering and Manufacturing Development (E&MD) in October 1998. Two contractors will develop and produce their own EELVS. The contractors are Boeing, Huntington Beach, California, and Lockheed Martin, Denver, Colorado.

**Mission:** EELV will provide the DoD, the NRO, and other government and commercial purchasers of launch services with low cost, highly reliable access to space for medium to heavy lift class of satellites starting in FY 2002.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (-)            | -          | (-)            | -          | (1)            | 70.8       |
| <b>Initial Spares</b>        |                | -          |                | -          |                | -          |
|                              |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>Subtotal</b>              |                | -          |                | -          |                | 70.8       |
| <b>RDT&amp;E</b>             |                | 23.3       |                | 259.1      |                | 324.8      |
| <b>Military Construction</b> |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>TOTAL</b>                 |                | 23.3       |                | 259.1      |                | 395.6      |



**SPACE PROGRAMS  
AIR FORCE**

**SPACE BASED INFRARED SYSTEM (SBIRS) - HIGH**

**Description:** SBIRS is a "system of systems" that will include both a High and a Low space segment and a consolidated ground processing system. SBIRS High will field a constellation of four satellites in geosynchronous orbit (GEO) and two satellites in highly elliptical orbit (HEO) to provide initial warning of a ballistic missile attack against the United States, its deployed forces, or its allies. SBIRS High will support National Missile Defense and will also be used to collect a variety of technical intelligence. The High segment, which will replace the Defense Support Program (DSP), entered Engineering and Manufacturing Development (E&MD) in October 1996. The first two GEO satellites and the two HEO satellites will be acquired with RDT&E appropriations. The third, fourth, and fifth GEO satellites will be funded with Procurement appropriations. SBIRS High will be launched with a medium variant Evolved Expendable Launch Vehicle (EELV). Lockheed, Sunnyvale, California, is the prime contractor for SBIRS High. The first launch of SBIRS High is now scheduled for late 2004.

**Mission:** SBIRS High will use new technologies to enhance detection and improve reporting of strategic and tactical ballistic missile launches.

**Program Acquisition Costs  
(\$ Millions)**

|                                  | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|----------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                                  | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>               |                |            |                |            |                |            |
| <b>Item</b>                      | (-)            | -          | (-)            | -          | (-)            | -          |
| <b>Initial Spares</b>            |                | -          |                | -          |                | -          |
|                                  |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>Subtotal</b>                  |                | -          |                | -          |                | -          |
| <br><b>RDT&amp;E</b>             |                | 337.9      |                | 539.4      |                | 328.7      |
| <br><b>Military Construction</b> |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>TOTAL</b>                     |                | 337.9      |                | 539.4      |                | 328.7      |

**SPACE PROGRAMS  
AIR FORCE**

**SPACE BASED INFRARED SYSTEM (SBIRS) - LOW**

**Description:** SBIRS is a "system of systems" that will include both a High and a Low space segment and a consolidated ground processing system. SBIRS Low, formerly known as the Strategic Missile Tracking System (SMTS), will field a constellation of approximately 24 satellites in low earth orbit (LEO) to provide midcourse tracking and discrimination data for National and Theater Missile Defense. SBIRS Low will enhance ground based radars for missile targeting and tracking for National Missile Defense. It will also be used for battlefield characterization and for technical intelligence. The program is currently in the Demonstration and Validation (Dem/Val) phase with two contractor teams planning to launch demonstration satellites in late 2000. One team consists of TRW, Redondo Beach, California, and Hughes, El Segundo, California, and the other team consists of Boeing, Seal Beach, California, and Lockheed, Sunnyvale, California. A full and open competition is currently underway to select two contractors for the next phase of the program, the Program Definition (PD) phase. At the conclusion of the PD phase, only one of the two PD teams will be continued into Engineering and Manufacturing Development (E&MD) and production. First launch of an operational satellite is now scheduled for late 2006.

**Mission:** SBIRS Low will use new technologies to provide midcourse tracking and discrimination data for defense against strategic and tactical ballistic missiles.

**Program Acquisition Costs  
(\$ Millions)**

|                                  | <u>FY 1998</u> |              | <u>FY 1999</u> |              | <u>FY 2000</u> |              |
|----------------------------------|----------------|--------------|----------------|--------------|----------------|--------------|
|                                  | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>   |
| <b>Procurement</b>               |                |              |                |              |                |              |
| <b>Item</b>                      | (-)            | -            | (-)            | -            | (-)            | -            |
| <b>Initial Spares</b>            |                | -            |                | -            |                | -            |
|                                  |                | <hr/>        |                | <hr/>        |                | <hr/>        |
| <b>Subtotal</b>                  |                | -            |                | -            |                | -            |
| <br><b>RDT&amp;E</b>             |                | <b>213.5</b> |                | <b>192.2</b> |                | <b>229.0</b> |
| <br><b>Military Construction</b> |                | <hr/>        |                | <hr/>        |                | <hr/>        |
| <b>TOTAL</b>                     |                | <b>213.5</b> |                | <b>192.2</b> |                | <b>229.0</b> |

**OTHER PROGRAMS  
ARMY**

**FAMILY OF HEAVY TACTICAL VEHICLES (FHTV)**

**Description:** The FHTV consists of the Palletized Load System (PLS), Heavy Equipment Transporter System (HETS) and Heavy Expanded Mobility Tactical Truck (HEMTT). The PLS consists of a 16.5-ton tactical vehicle composed of a truck (10x10 with central tire inflation system (CTIS)) with integral self load/ unload capability, 16.5-ton companion trailer and demountable cargo beds (flatracks). HETS consists of the M1070 tractor (8x8 w/CTIS) and the M1000 semitrailer (70-ton). The HEMTT is a 10-ton (8x8) which comes in five configurations (M977-Cargo w/Crane, M978-Fuel Tanker 2500 gallons, M983-Tractor, M9841A1-Wrecker, M985-Cargo w/Heavy Crane). The prime contractor is Oshkosh Truck Corporation of Oshkosh, WI.

**Mission:** PLS is a key transportation component of the Maneuver Ammunition Distribution System (MOADS). PLS is assigned to self-propelled artillery units, Forward Support Battalions, and selected ammunition and transportation companies. HETS provides the transportation and evacuation of the M1 Main Battle Tank. HEMTT provides resupply of combat vehicles, helicopter and missile systems in combat support units across all tactical mobility levels.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           | (286)          | 112.3      | (489)          | 189.1      | (450)          | 190.4      |
| <b>Initial Spares</b>        |                | —          |                | —          |                | —          |
| <b>Subtotal</b>              |                | 112.3      |                | 189.1      |                | 190.4      |
| <b>RDT&amp;E</b>             |                | :          |                | 7.3        |                | :          |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 112.3      |                | 196.4      |                | 190.4      |

**OTHER PROGRAMS  
ARMY**

**FAMILY OF MEDIUM TACTICAL VEHICLES (FMTV)**

**Description:** The FMTV is a family of diesel powered trucks in the 2 1/2 ton (4x4) and 5 ton (6x6) payload classes that will modernize and improve the existing medium-tactical wheeled vehicle fleet. This Non-Developmental Item (NDI) procurement capitalizes on current state of the art automotive technology including a diesel engine, automatic transmission, and central tire inflation system (CTIS). The FMTV consists of multiple body styles: cargo, wrecker, dump, tractor, airdrop, etc. The FMTV with its enhanced mobility, state of the art components, and logistics commonality between Light (4x4 LMTV) and Medium (6x6 MTV) will improve unit operational capabilities and reduce Operation and Support (O&S) costs. The prime contractor is Stewart and Stevenson, Inc. in Sealy, TX.

**Mission:** FMTV performs numerous unit mobility and unit resupply missions including the transport of equipment and personnel. FMTV's numerous models perform a wide variety of missions including cargo transport (cargo model), vehicle recovery operations (wrecker), construction (dump), line haul (tractor), and airdrop missions (Low Velocity Air Drop (LVAD) model). FMTV's support combat support and combat service support unit missions as well as civil disaster relief.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (1,179)        | 201.6      | (1,439)        | 331.1      | (2,179)        | 425.9      |
| <b>Initial Spares</b>        |                | —          |                | 4.3        |                | —          |
| <b>Subtotal</b>              |                | 201.6      |                | 335.4      |                | 425.9      |
| <b>RDT&amp;E</b>             |                | 2.9        |                | —          |                | 2.0        |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 204.5      |                | 335.4      |                | 427.9      |

**OTHER PROGRAMS  
ARMY**

**HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLE (HMMWV)**

**Description:** The High Mobility Multipurpose Wheeled Vehicle (HMMWV) is a light, highly mobile, diesel powered air transportable and air dropable, 4-wheel drive tactical vehicle. The HMMWV can be configured through the use of common components and kits to become a cargo/troop carrier, armament carrier, shelter carrier, ambulance, and TOW and Stinger weapons carrier. The prime contractor is AM General of Mishawaka, IN.

**Mission:** The HMMWV fulfills specific missions such as serving as the platform for several weapon systems and as an uparmored vehicle for scout and military police missions.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Item</b>                  | (1768)         | 120.9      | (671)          | 64.1       | (867)          | 91.7       |
| <b>Initial Spares</b>        |                | -          |                | .1         |                | .1         |
|                              |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>Subtotal</b>              |                | 120.9      |                | 64.2       |                | 91.8       |
| <b>RDT&amp;E</b>             |                | -          |                | -          |                | 7.5        |
| <b>Military Construction</b> |                | -          |                | -          |                | -          |
|                              |                | <hr/>      |                | <hr/>      |                | <hr/>      |
| <b>TOTAL</b>                 |                | 120.9      |                | 64.2       |                | 99.3       |

**OTHER PROGRAMS  
ARMY**

**SENSE AND DESTROY ARMOR (SADARM)**

**Description:** The 155MM Sense and Destroy Armor (SADARM) projectile is a fire and forget, multisensor smart munition designed to detect and destroy countermeasure armored vehicles, primarily self-propelled artillery. SADARM is delivered to the target area in 155MM artillery projectiles. Each projectile carries 2 SADARM submunitions. Once dispensed, each submunition detects targets using dual-mode millimeter-wave and infrared sensor and fires an explosively formed penetrator through the top of the target. These capabilities will be enhanced by the SADARM Product Improvements Program. SADARM is manufactured by Aerojet Electronic System Division, Azusa, CA.

**Mission:** The 155MM SADARM projectile provides enhanced fire/counterfire support against stationary, armored vehicles well beyond the forward line of troops. SADARM enables rapid engagement under inclement weather, degraded battlefield conditions and Nuclear, Biological, and Chemical (NBC) environments, both day and night.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| SADARM                       | (300)          | 65.3       | (100)          | 31.5       | (227)          | 54.5       |
| Initial Spares               |                | —          |                | —          |                | —          |
| Subtotal                     |                | 65.3       |                | 31.5       |                | 54.5       |
| <b>RDT&amp;E</b>             |                | 10.5       |                | 31.6       |                | 19.4       |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 75.8       |                | 63.1       |                | 73.9       |

**OTHER PROGRAMS  
ARMY**

**HORNET (WIDE AREA MUNITION, M93)**

**Description:** The M93 HORNET (Wide Area Munition) is a smart, remotely-programmable antitank munition. It is one soldier portable with a weight of 35 pounds. It has the capability to recognize armor and heavy truck targets and to autonomously aim and launch its submunition at targets within 1000 meters. The M93 is designed for command and control of the arm/destroy functions. A product improvement program (PIP) will provide two-way command and control capability, redeployment capabilities, advanced sensors, and improved warhead to extend HORNET range, lethality, and effectiveness. The HORNET will be manufactured by Textron Defense Systems, Wilmington, MA.

**Mission:** The M93 HORNET supports high mobility/offensive operations. Its design for flexible/rapid deployment combined with cost effective logistics and a self covering minefield capability provides increased performance and lethality over current mines in the inventory.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Item                         | (74)           | 14.7       | (65)           | 9.6        | (79)           | 10.4       |
| Initial Spares               |                | —          |                | —          |                | —          |
| Subtotal                     |                | 14.7       |                | 9.6        |                | 10.4       |
| <b>RDT&amp;E</b>             |                | 21.4       |                | 23.0       |                | 13.3       |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 36.1       |                | 32.6       |                | 23.7       |

**OTHER PROGRAMS  
AIR FORCE**

**SENSOR FUZED WEAPON (SFW)**

**Description:** The Sensor Fuzed Weapon (CBU-97/B), is a cluster munition designed for direct attack against armored targets. The SFW is manufactured by Textron Defense Systems, Wilmington, MA. The FY 2000 budget request continues production.

**Mission:** The objective of the SFW is to develop and produce a conventional munition capable of multiple kills per pass against operating armored vehicles, air defense units, and other support vehicles.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| Sensor Fuzed Weapon          | (550)          | 148.6      | (397)          | 125.1      | (203)          | 61.3       |
| Initial Spares               |                | —          |                | —          |                | —          |
| Subtotal                     |                | 148.6      |                | 125.1      |                | 61.3       |
| <b>RDT&amp;E</b>             |                | 15.8       |                | 7.5        |                | 11.8       |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 164.4      |                | 132.6      |                | 73.1       |



**OTHER PROGRAMS  
AIR FORCE**

**WIND CORRECTED MUNITIONS DISPENSER (WCMD)**

**Description:** The Wind Corrected Munitions Dispenser (WCMD) guidance kit for the CBU-87/B, CBU-89/B and the CBU-97/B provides inertial navigation to correct for the effects of wind transients and ballistic errors caused by wind when these CBU munitions are released from medium to high altitudes. The FY 2000 budget request continues production.

**Mission:** The objective of the WCMD is to improve the war-fighting effectiveness of both bombers and fighters.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |            | <u>FY 1999</u> |            | <u>FY 2000</u> |            |
|------------------------------|----------------|------------|----------------|------------|----------------|------------|
|                              | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u> |
| <b>Procurement</b>           |                |            |                |            |                |            |
| <b>Dispensers</b>            | (280)          | 11.8       | (676)          | 13.8       | (2922)         | 48.9       |
| <b>Initial Spares</b>        |                | —          |                | —          |                | —          |
| <b>Subtotal</b>              |                | 11.8       |                | 13.8       |                | 48.9       |
| <b>RDT&amp;E</b>             |                | 17.6       |                | 7.3        |                | -          |
| <b>Military Construction</b> |                | —          |                | —          |                | —          |
| <b>TOTAL</b>                 |                | 29.4       |                | 21.1       |                | 48.9       |

**OTHER PROGRAMS  
DOD-WIDE/JOINT**

**THEATER MISSILE DEFENSE (TMD)**

**Description:** The Ballistic Missile Defense (BMD) program provides for the acquisition of weapon systems capable of defending U.S. interests from ballistic missile attacks. The FY 2000 program emphasizes the development of the Theater Missile Defense (TMD) and the National Missile Defense (NMD) systems. The primary components of the TMD program are the Patriot Advance Capability - 3 (PAC-3) missile; the Theater High Altitude Area Defense (THAAD) system; the Navy Area Theater Ballistic Missile Defense (TBMD) system; and the Navy Theater-Wide (NTW) program. The Air Force provides for the Airborne Laser program. The Space Based Laser program is funded jointly between the Air Force and BMDO.

**Mission:** To conduct research and development of defensive technologies and related systems that may enable the destruction of ballistic missiles and warheads in flight; and to develop systems that protect U.S. and allied forces from a missile attack.

| Program Acquisition Costs* |         |         |         |         |         |         |
|----------------------------|---------|---------|---------|---------|---------|---------|
| (\$ Millions)              |         |         |         |         |         |         |
|                            | FY 1998 |         | FY 1999 |         | FY 2000 |         |
|                            | Qty     | Amt     | Qty     | Amt     | Qty     | Amt     |
| RDT&E (BMDO)               |         |         |         |         |         |         |
| THAAD                      |         | 387.3   |         | 433.9   |         | 611.6   |
| Support Technologies       |         | 289.7   |         | 245.3   |         | 164.0   |
| Navy Area                  |         | 292.1   |         | 242.6   |         | 268.4   |
| Navy Theater Wide          |         | 437.9   |         | 344.3   |         | 349.8   |
| Supplemental               |         | (-)     |         | (10.0)  |         | (20.0)  |
| Patriot PAC-3              |         | 242.7   |         | 240.8   |         | 109.1   |
| Supplemental               |         | -       |         | (60.0)  |         | (80.0)  |
| MEADS                      |         | 49.7    |         | 9.9     |         | 48.6    |
| Space Based Laser          |         | 118.3   |         | 125.0   |         | 75.0    |
| Joint TMD                  |         | 684.2   |         | 200.1   |         | 195.7   |
| Family of Systems          |         | -       |         | 95.7    |         | 141.8   |
| BMD Technical Operations   |         | -       |         | 184.8   |         | 190.7   |
| Other Programs**           |         | 14.0    |         | 88.7    |         | 53.1    |
| Subtotal BMDO              |         | 2,515.9 |         | 2,211.1 |         | 2,207.9 |
| Supp. Subtotal             |         | (-)     |         | (70.0)  |         | (100.0) |
| RDT&E (AF)                 |         |         |         |         |         |         |
| Airborne Laser             |         | 153.5   |         | 257.3   |         | 308.6   |
| Space Based Laser          |         | -       |         | 33.8    |         | 63.8    |
| Subtotal Air Force         |         | 153.5   |         | 296.1   |         | 372.4   |
| RDT&E (Army) Aerostat      |         | 29.9    |         | 14.6    |         | 24.9    |
| Subtotal RDT&E             |         | 2,699.3 |         | 2,521.8 |         | 2,605.2 |

Cont.

**OTHER PROGRAMS  
DOD-WIDE/JOINT**

**THEATER MISSILE DEFENSE (TMD) (Cont.)**

|                                     |     |                |     |                |  |                |
|-------------------------------------|-----|----------------|-----|----------------|--|----------------|
| <b>Military Construction (BMDO)</b> |     | <b>2.0</b>     |     | <b>.3</b>      |  | <b>1.4</b>     |
| <b>Procurement (BMDO)</b>           |     |                |     |                |  |                |
| Patriot PAC-3                       | (-) | 316.8          | (-) | 245.5          |  | 300.9          |
| TMD BMC3                            | (-) | 14.2           | (-) | 22.8           |  | -              |
| Navy Area                           | (-) | 14.9           | (-) | 43.2           |  | 55.0           |
| Subtotal Procurement                |     | <u>345.8</u>   |     | <u>311.4</u>   |  | <u>355.9</u>   |
| <b>TOTAL TMD</b>                    |     | <b>3,047.1</b> |     | <b>2,833.5</b> |  | <b>2,962.5</b> |
| Supplemental Total                  |     | (-)            |     | (70.0)         |  | (100.0)        |

\* The totals include funding from the FY 1999 Emergency Supplemental in the year it would be executed.

\*\* Includes Int'l Cooperative, Threat and Countermeasures, and Boost Phase Intercept.

**OTHER PROGRAMS  
DOD-WIDE/JOINT**

**NATIONAL MISSILE DEFENSE (NMD)**

**Description:** The Ballistic Missile Defense (BMD) program provides for the acquisition of weapon systems capable of defending U.S. interests from ballistic missile attacks. The FY 2000 BMD program provides for the continued development of technology leading to future deployment of a National Missile Defense (NMD) capability.

**Mission:** To develop systems that protect the U.S. from a missile attack.

|                       | Program Acquisition Costs* |            |                |                |                |                |
|-----------------------|----------------------------|------------|----------------|----------------|----------------|----------------|
|                       | (\$ Millions)              |            |                |                |                |                |
|                       | <u>FY 1998</u>             |            | <u>FY 1999</u> |                | <u>FY 2000</u> |                |
|                       | <u>Qty</u>                 | <u>Amt</u> | <u>Qty</u>     | <u>Amt</u>     | <u>Qty</u>     | <u>Amt</u>     |
| RTD&E                 |                            | 935.7      |                | 1,083.2        |                | 1,286.6        |
| Supplemental          |                            | <u>(-)</u> |                | <u>(150.0)</u> |                | <u>(450.0)</u> |
| Subtotal RDT&E        |                            | 935.7      |                | 1,083.2        |                | 1,286.6        |
| Military Construction |                            | .5         |                | 9.7            |                | -              |
| Procurement           |                            | <u>-</u>   |                | <u>-</u>       |                | <u>-</u>       |
| TOTAL NMD             |                            | 936.2      |                | 1,092.9        |                | 1,286.6        |

\* The totals include funding from the FY 1999 Emergency Supplemental in the year it would be executed.

**OTHER PROGRAMS  
DOD-WIDE/JOINT**

**JOINT DIRECT ATTACK MUNITION**

**Description:** The Joint Direct Attack Munition (JDAM) program is a joint AF/Navy program led by the Air Force. The JDAM will improve the existing inventory of MK83, MK84 and BLU-109 weapons by integrating a Global Positioning System (GPS) inertial navigation guidance capability that improves accuracy and adverse weather capability. The prime contractor is Boeing, St. Louis, MO. The FY 2000 budget request continues production.

**Mission:** This program will enhance current DoD conventional strike system capabilities by providing the ability to precisely attack time-critical, high value fixed, relocateable or maritime targets under adverse environmental conditions and from all altitudes.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |              | <u>FY 1999</u> |              | <u>FY 2000</u> |              |
|------------------------------|----------------|--------------|----------------|--------------|----------------|--------------|
|                              | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>   |
| <b>Procurement</b>           |                |              |                |              |                |              |
| <b>Item</b>                  |                |              |                |              |                |              |
| <i>Air Force</i>             | (1,655)        | 39.2         | (1,782)        | 46.0         | (5,410)        | 125.6        |
| <i>Navy</i>                  | (547)          | 25.1         | (745)          | 37.8         | (785)          | 35.6         |
| <b>Item Subtotal</b>         | <b>(2,202)</b> | <b>64.3</b>  | <b>(2,527)</b> | <b>83.8</b>  | <b>(6,195)</b> | <b>161.2</b> |
| <b>Initial Spares</b>        |                | <u>-</u>     |                | <u>-</u>     |                | <u>-</u>     |
| <b>Subtotal</b>              |                | <b>64.3</b>  |                | <b>83.8</b>  |                | <b>161.2</b> |
| <b>RDT&amp;E</b>             |                |              |                |              |                |              |
| <i>Air Force</i>             |                | 21.1         |                | 12.0         |                | 1.4          |
| <i>Navy</i>                  |                | <u>15.4</u>  |                | <u>11.2</u>  |                | <u>11.8</u>  |
| <b>RDT&amp;E Subtotal</b>    |                | <b>36.5</b>  |                | <b>23.2</b>  |                | <b>13.2</b>  |
| <b>Military Construction</b> |                |              |                |              |                |              |
|                              |                | <u>-</u>     |                | <u>-</u>     |                | <u>-</u>     |
| <i>Air Force</i>             |                | 60.3         |                | 58.0         |                | 127.0        |
| <i>Navy</i>                  |                | 40.5         |                | 49.0         |                | 47.4         |
| <b>TOTAL</b>                 |                | <b>100.8</b> |                | <b>107.0</b> |                | <b>174.4</b> |

**OTHER PROGRAMS  
DOD-WIDE/JOINT**

**UNMANNED AERIAL VEHICLES (UAV)**

**Description:** The Department is acquiring a family of Unmanned Aerial Vehicles (UAV) to satisfy tactical reconnaissance mission requirements. Each air vehicle system is being specifically tailored to conduct continuous overhead surveillance in all weather conditions during the day and night, in direct support of the Joint Forces Commander. The UAVs are equipped with electro-optical and Synthetic Aperture Radar (SAR), and other sensors to perform their mission. The systems being developed and procured are: Tactical UAV; Medium Altitude Endurance UAV (Predator); High Altitude Endurance UAV (Global Hawk); and the Low Observable High Altitude Endurance UAV (DarkStar).

**Mission:** The purpose of airborne reconnaissance UAVs is to collect and transmit intelligence information to the combat forces. The function of the UAVs in an airborne reconnaissance environment is to transport sensor, information-processing, and communications systems to locations where the desired information can be collected, to provide an acceptable level of survivability throughout the mission, and to return for repeated use.

**Program Acquisition Costs  
(\$ Millions)**

|                              | <u>FY 1998</u> |              | <u>FY 1999</u> |              | <u>FY 2000</u> |             |
|------------------------------|----------------|--------------|----------------|--------------|----------------|-------------|
|                              | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>   | <u>Qty</u>     | <u>Amt</u>  |
| <b>Procurement</b>           |                |              |                |              |                |             |
| Predator UAV (AF)            | (20)           | <u>135.8</u> | (15)           | <u>114.2</u> | (3)            | <u>38.0</u> |
| Subtotal                     |                | 135.8        |                | 114.2        |                | 38.0        |
| <b>RDT&amp;E</b>             |                |              |                |              |                |             |
| Army                         |                | 42.2         |                | 145.2        |                | 16.9        |
| Navy                         |                | .3           |                | 108.6        |                | 111.2       |
| Air Force                    |                | 24.7         |                | 380.0        |                | 217.7       |
| Defense-wide                 |                | <u>449.3</u> |                | <u>31.6</u>  |                | <u>64.3</u> |
| Subtotal                     |                | 516.5        |                | 665.4        |                | 610.1       |
| <b>Military Construction</b> |                | —            |                | —            |                | —           |
| <b>TOTAL</b>                 |                | 652.3        |                | 779.6        |                | 648.1       |